

# Camera Control API Reference

Ver.1.3.0

Rev.1.5

**Canon**

## Change history

Change history		
Ver.1.0.0		
2019/3/1	Rev.1.0	<b>First release</b>
2019/7/12	Rev.1.1	<p><b>4.4.4. Temperature warning information</b></p> <ul style="list-style-type: none"> <li>- Added kind of Value of status</li> </ul> <p><b>5.2. Live View Incidental Information</b></p> <ul style="list-style-type: none"> <li>- Added instructions for Object of angleinformation</li> </ul>
Ver.1.1.0		
2020/1/26	Rev.1.0	<b>First release</b>
2020/7/30	Rev.1.1	<p><b>New Features</b></p> <p><b>4.4.5. Battery information list</b></p> <ul style="list-style-type: none"> <li>- Add “/devicestatus/batterylist” API description</li> </ul> <p><b>4.11.10. Click white balance</b></p> <ul style="list-style-type: none"> <li>- Add “/liveview/clickwb” API description</li> </ul> <p><b>6.2.20. Still image shooting method using click white balance</b></p> <ul style="list-style-type: none"> <li>- Add sequence diagram</li> </ul> <p><b>Changes</b></p> <p><b>4.4.4. Battery information</b></p> <ul style="list-style-type: none"> <li>- Add description of when the battery grip is attached</li> </ul> <p><b>4.5.9. Auto Power Off setting</b></p> <ul style="list-style-type: none"> <li>- Add “immediately”, Add Error Condition</li> </ul> <p><b>4.11.1. Live View settings</b></p> <ul style="list-style-type: none"> <li>- Add Error Condition</li> </ul> <p><b>4.11.7. Start/Stop RTP</b></p> <ul style="list-style-type: none"> <li>- Add Error Condition</li> </ul> <p><b>4.13. Get Camera Status</b></p> <ul style="list-style-type: none"> <li>- Add JSON Field</li> </ul>
2020/8/31	Rev.1.2	<b>New Features</b>
		<b>4.9.12. Shutter mode</b>

		<p><b>4.9.43. High frame rate setting</b></p> <p><b>4.12. Optical Viewfinder</b></p> <p><b>4.5.11. List of Network setting APIs</b></p> <p><b>4.5.12. Current Connection settings (SET)</b></p> <p><b>4.5.13. Get lis of Connection settings (SET)</b></p> <p><b>4.5.14. Connection settings (SET)</b></p> <p><b>4.5.15. Get list of Communication settings (NW)</b></p> <p><b>4.5.16. Commicitation settings (NW)</b></p> <p><b>4.5.17. Get list of Function settings (MODE)</b></p> <p><b>4.5.18. Function settings (MODE)</b></p> <p><b>Changes</b></p> <p><b>4.5.10 Network disconnect / reboot</b></p> <ul style="list-style-type: none"> <li>- Add “reboot” to title</li> </ul> <p><b>4.13. Get Camera Status</b></p> <ul style="list-style-type: none"> <li>- Add JSON Field</li> </ul> <p><b>4.8.6 Focus drive</b></p> <ul style="list-style-type: none"> <li>- Add API Effectivitz</li> </ul> <p><b>4.9.3 Get/chang shooting mode (models without a shooting mode dial)</b></p> <ul style="list-style-type: none"> <li>- Add PUT</li> </ul> <p><b>5.2. Live View Incidental Information</b></p> <ul style="list-style-type: none"> <li>-Object of afframe/status</li> <li>- Modify the "Standby" Value</li> </ul>
2020/10/15	Rev.1.3	<p><b>Changes</b></p> <p><b>Modify Change History Date</b></p> <p><b>4.11.4. Scroll</b></p> <ul style="list-style-type: none"> <li>- Modify the "Content-Type" value of Response 200</li> </ul> <p><b>4.11.10 Click white balance</b></p> <ul style="list-style-type: none"> <li>-Modify Method</li> </ul> <p><b>5.2. Live View Incidental Information</b></p> <ul style="list-style-type: none"> <li>-Object of afframe/status</li> <li>- Modify the "Standby" Value</li> </ul>
2021/03/26	Rev.1.4	<b>Changes</b>

		<p><b>4.5.8. Auto Display Off setting</b></p> <p><b>4.5.9. Auto Power Off setting</b></p> <p><b>4.9.20. Exposure bracket</b></p> <ul style="list-style-type: none"> <li>- Added instructions for the values that this API can take</li> </ul> <p><b>4.5.8. Auto Display Off setting</b></p> <p><b>4.9.3 Get/change shooting mode (models without a shooting mode dial)</b></p> <p><b>4.9.8. WhiteBalance</b></p> <p><b>4.9.11. AF method</b></p> <ul style="list-style-type: none"> <li>- Added items of "Value of value"</li> </ul> <p><b>4.9.13. Still image shooting image quality</b></p> <ul style="list-style-type: none"> <li>- Added items of "Value of jpeg/heif"</li> </ul> <p><b>4.9.14. Still image compression ratio</b></p> <ul style="list-style-type: none"> <li>- Merged each description for API</li> </ul> <p><b>4.9.15. HDR setting</b></p> <ul style="list-style-type: none"> <li>- Added description of when the Camera is movie mode</li> <li>- Modify section of "still image HDR setting" to "HDR setting"</li> </ul> <p><b>4.9.39. Movie recording image quality</b></p> <ul style="list-style-type: none"> <li>- Modify description of "Value of value" to general expression</li> </ul> <p><b>4.8.6. Focus drive</b></p> <ul style="list-style-type: none"> <li>- Fix API Description</li> </ul>
2021/8/24	Rev.1.5	<p><b>New Features</b></p> <p><b>4.9.3. Get movie recording mode (models with a shooting mode dial)</b></p> <p><b>Changes</b></p>

		<p><b>4.5.5. Date and time</b></p> <p>- <b>Modify PUT Method Example URL</b></p> <p><b>4.13.1 polling</b></p> <p>- <b>Added “Body” of GET Method</b></p>
2021/12/2	Rev.1.6	<p><b>New Features</b></p> <p><b>4.5.24. Still Image / movie Separate</b></p> <p><b>4.5.25. Still Image Rec options</b></p> <p><b>4.5.26. Movie Rec Options</b></p> <p><b>4.5.27. Still image Record/play</b></p> <p><b>4.5.28. Movie Record/play</b></p> <p><b>4.8.8. Flicker detection</b></p> <p><b>4.8.9. HF flicker detection</b></p> <p><b>4.8.10. HF flicker TV change</b></p> <p><b>4.9.13. Subject tracking</b></p> <p><b>4.9.16. Still image compression ratio</b></p> <p><b>4.9.41. Anti-flicker shoot</b></p> <p><b>4.9.42. HF Anti-flicker shoot</b></p> <p><b>4.9.43. HF flicker TV</b></p> <p><b>4.9.46. Movie Cropping</b></p> <p><b>4.9.47. Movie rec. format</b></p> <p><b>Change</b></p> <p><b>4.2.1. List of supported APIs</b></p> <p>- <b>Add / Modify API descriptions</b></p> <p><b>4.4.3. Current directory information</b></p> <p>- <b>Modify Example URI</b></p> <p><b>4.5.15. Get list of Communication settings (NW)</b></p> <p><b>4.5.16. Communication settings (NW)</b></p> <p>- <b>Add description of WPA3</b></p> <p><b>4.9.1 Get all shooting parameters</b></p> <p>- <b>Add “Body” of GET Method</b></p>

		<p><b>4.9.11. AF operation</b> - Add PUT Method</p> <p><b>4.9.12. AF method</b> - Add items of “Value of value”</p> <p><b>4.9.44. Movie recording image quality</b> - Add items of “Value of image size”</p> <p><b>4.13.1 polling</b> - Add “Body” of GET Method</p> <p><b>6.2.17 HF Flicker</b> <b>6.2.18 HF flicker detection (Setting Recommended Tv Value)</b> - Add sequence diagram</p>
2022/1/31	Rev.1.7	<p><b>New Features</b></p> <p><b>4.5.10. Sensor Cleaning</b></p>
2022/03/28	Rev.1.8	<p><b>Change</b></p> <p><b>4.5.22. Wi-Fi connection settings</b> - Merge description per set</p> <p><b>4.5.21. Get connection settings</b> <b>4.5.22. Wi-Fi connection settings</b> - Add Ver.1.1.0</p> <p><b>4.7.2. Get list of directory URLs</b> <b>4.7.3. Get list of contents URLs</b> <b>4.7.4. Delete directory</b> <b>4.7.5. Get contents</b> <b>4.7.6. Modify contents</b> - Fix the Example URI of Ver. 1.1.0</p> <p><b>4.4.1. Storage information</b> <b>4.7.1. Get list of storage URLs</b></p>

		<p><b>4.7.2. Get list of directory URLs</b></p> <p><b>4.7.3. Get list of contents URLs</b></p> <p>- Fix the JSON example in Response 200 of Ver. 1.1.0</p> <p><b>4.4.2. Current storage information</b></p> <p><b>4.4.3. Current directory informatio</b></p> <p>- Fix the JSON example in Response 200</p> <p><b>4.5.6. Format</b></p> <p>- Fix the JSON example in Request</p> <p><b>4.9.15. Still image shooting image quality</b></p> <p>-Add Value of jpeg/heif</p> <p><b>4.11.6. Get SDP</b></p> <p>- Fix the Text example in Response 200</p>
2022/06/17	Rev.1.9	<p><b>New Features</b></p> <p><b>4.8.3. Ignore shooting mode dial mode</b></p> <p><b>4.9.22. Custom high speed continuous (shooting speed)</b></p> <p><b>4.9.23. Custom high speed continuous (number of shots)</b></p> <p><b>4.9.46. Focus bracketing</b></p> <p><b>4.9.47. Focus bracketing (number of shots)</b></p> <p><b>4.9.48. Focus bracketing (focus increment)</b></p> <p><b>4.9.49. Focus bracketing (exposure smoothing)</b></p> <p><b>Change</b></p> <p><b>4.9.2. Get / Change shooting mode (models with a shooting mode dial)</b></p> <p><b>4.9.3. Get / Change movie recording mode (models with a shooting mode dial)</b></p> <p>- Add PUT</p>

		<p>- Change Index</p> <p><b>4.9.21. Continuous shooting mode</b></p> <p>- Add Value of value</p>
<b>Ver.1.2.0</b>		
2022/10/18	Rev.1.0	<p>New Features</p> <p>4.5.23. Get root certificate</p> <p>4.5.24. Common name</p> <p>4.5.25. CORS setting</p> <p>4.5.26. CORS origin setting</p> <p>4.11.6. multipart</p> <p>6.3. List of supported APIs for each Canon camera</p> <p>Change</p> <p>1.5. What can be Done with a Canon Camera</p> <p>- Remove notes about HTTPS</p> <p>3.3.2. Status codes</p> <p>- Added status message "Invalid Request" in status code "400"</p> <p>- Added status message "Forbidden" in status code "403"</p> <p>3.3.3. Error Response</p> <p>- Added Error Response 403</p> <p>4.2.1. List of supported APIs</p> <p>- Fix the JSON example for Ver.1.1.0 compatible models</p> <p>- Added Ver.1.2.0 compatible models</p> <p>4.4.4. Battery information</p>

		<ul style="list-style-type: none"><li>- Added name "quarter" in "value of level"</li><li>- Modify description of the name "low" in "value of level"</li></ul> <p>4.5.21. Get Connection settings</p> <ul style="list-style-type: none"><li>- Added item in "Value of authentication" of Ver.1.1.0</li></ul> <p>4.5.22. Wi-Fi Connection settings</p> <ul style="list-style-type: none"><li>- Added notes to PUT methods of Ver.1.1.0</li></ul> <p>4.7.1. Get list of storage URLs</p> <p>4.7.2. Get list of directory URLs</p> <p>4.7.3. Get list of contents URLs</p> <p>4.7.4. Delete directory</p> <p>4.7.5. Get contents</p> <p>4.7.6. Modify contents</p> <ul style="list-style-type: none"><li>- Added Ver.1.2.0</li></ul> <p>4.11.4. scroll</p> <p>4.11.5. scrolldetail</p> <p>4.11.10. Designate AF frame position</p> <ul style="list-style-type: none"><li>- Spelling Correction the "Body Field"</li></ul> <p>4.13.1. polling</p> <ul style="list-style-type: none"><li>- Added Ver.1.1.0</li></ul> <p>4.13.2. monitoring</p> <ul style="list-style-type: none"><li>- Spelling Correction the "Headers" of Response 200</li></ul>
<b>Ver.1.3.0</b>		
2022/11/9	Rev.1.0	<p>Change</p> <p>4.2.1. List of supported APIs</p> <ul style="list-style-type: none"><li>- Added Ver.1.3.0 compatible models</li></ul> <p>4.7.1. Get list of storage URLs</p>

		<p>4.7.2. Get list of directory URLs          4.7.3. Get list of contents URLs          4.7.4. Delete directory          4.7.5. Get contents          4.7.6. Modify contents          - Added Ver.1.3.0</p> <p>4.8.6. Zoom control          - "GET" Description Review</p> <p>6.3. List of supported APIs for each Canon camera          6.3.12. EOS R5          6.3.12. EOS R7          6.3.12. EOS R10</p>
2022/12/7	Rev.1.1	<p>6.3. List of supported APIs for each Canon camera          6.3.18. EOS R8          6.3.19. EOS R50</p>
2023/5/25	Rev.1.2	<p>Change          4.9.56. Wind filter          4.9.57. Attenuator          - Add Value of value</p> <p>4.5.9. Auto Power Off setting          - Added Error Response 202</p> <p>6.3. List of supported APIs for each Canon camera          6.3.20. EOS R100</p>
2023/08/30	Rev.1.3	<p>New Features          4.2.2. List of supported APIs (For developers)          6.3.21 PowerShot V10</p> <p>Change          1.4. Terminology          - Add AVF</p>

		<p>4.2.1. List of supported APIs - Added AFV compatible models</p> <p>4.2.1. List of supported APIs</p> <p>4.5.1. Copyright holder name</p> <p>4.5.2. Author name</p> <p>4.5.3. Owner name</p> <p>4.5.4. Nickname</p> <p>- Added Description of AVF support</p>
2023/10/20	Rev.1.4	<p>Change</p> <p>6.3. List of supported APIs for each Canon camera</p> <p>6.3.17. EOS R6 Mark II</p> <p>6.3.18. EOS R8</p> <p>6.3.19. EOS R50</p>
2024/4/2	Rev1.5	<p>Change</p> <p>6.2.1 Shittermode → Shuttermode</p> <p>6.3.21. shootingmoe → shootingmode</p> <p>Correct spelling errors</p>

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# 1. Document Overview

## 1.1. About This Document

This document describes the connection specifications and API specifications of the Camera Control APIs (hereafter, CCAPIs). Specifically, it describes the Device Discovery specifications for discovering a Canon digital camera (hereafter, Canon camera) on a network connected via Wi-Fi or a wired LAN, and the HTTP specifications for operating a Canon camera from an opposing device via a network.

## 1.2. Cautions

- Operation is not assured for programs created based on this specification document.
- Operation is not assured when a Canon camera is controlled by a program that differs from the specifications described in this specification document.
- Some kind of camera trouble may occur when a Canon camera is controlled by a program that differs from the specifications described in this specification document.
- The contents of this specification document have been carefully checked, but it may still contain errors, so be sure to create the program in accordance with the operation of the Canon camera.

## 1.3. Supported Cameras

Check the guidance of each Canon camera for the CCAPI support situation.

## 1.4. Terminology

Term	Description
Wi-Fi	This name is a registered trademark related to wireless LAN, and indicates that interconnection between devices using the international standard IEEE802.11 has been approved by the Wi-Fi Alliance.
WFT	A camera accessory made by Canon. Abbreviation of Wireless File Transmitter. Wi-Fi and wired LAN connection functions can be added by mounting a WFT on a Canon camera.
Wired LAN	A connection method using a LAN cable. This method has a faster

	communication speed and more stable communication compared to Wi-Fi connection.
AP	A Wi-Fi access point. In AP mode, the digital camera is the Wi-Fi host.
STA	A Wi-Fi station. In STA mode, the digital camera is the Wi-Fi client.
UPnP	Abbreviation of Universal Plug and Play. This is a protocol established by the Open Connectivity Foundation (OCF) for automatically discovering and connecting devices on a network.
SSDP	Abbreviation of Simple Service Discovery Protocol. This is one of the protocols used in UPnP, and is a convention for searching for and responding to devices.
HTTP	Abbreviation of Hyper Text Transfer Protocol. This protocol is used to send and receive data between a server and a client. It is described in RFC2626.
Digest authentication	A type of HTTP authentication. This authentication method sends the user name and password in hashed (digest) form.
RTP	Abbreviation of Real-time Transport Protocol. This communication protocol is used to transfer continuous data flows such as audio and movies over a TCP/IP network in real-time. It is described in RFC3550.
API	Abbreviation of Application Programming Interface. This is an interface used to operate (digital camera) software from a program.
JSON	Abbreviation of JavaScript Object Notation. This lightweight data interchange format applies the object notation in JavaScript.
CRUD	An acronym created from the initials of the four basic functions (Create, Read, Update, Delete) of computer software. In the HTTP method these correspond respectively to POST, GET, PUT and DELETE.
Storage	This refers to recording devices that can store image data, such as media (SD, CF, etc.) mounted in digital cameras, and storage devices (FROM, EEPROM, HDD, etc.) built into digital cameras.
Resource	This refers to the data (URLs, image files, etc.) handled by the CCAPI programs.
Contents	The general term for all image files created by shooting with a digital camera.
Original image	An image created by shooting with a digital camera, that has not been subjected to post-processing.
Thumbnail image	An Exif compliant small 160 x 120 pixel image.
Display image	A short side 1080 pixel display image consisting of a Multi Picture Format (MPF) compliant display image embedded in a RAW image or a JPEG image.

Embedded image	An L size equivalent JPEG image embedded in a RAW image.
Metadata	Additional data included in contents that describe attributes that express those contents and related information. For example, Exif, etc.
DCF	Abbreviation of Design rule for Camera File system. This is a digital camera file system standard established by the Japan Electronics and Information Technology Industries Association (JEITA).
Exif	Abbreviation of Exchangeable image file format. This is an image file format established by the Japan Electronics and Information Technology Industries Association (JEITA).
Opposing device	A connected device that controls a digital camera.
AVF	Abbreviation of Activation-free. This means that the CCAPI activation procedure described in the Camera Control API operation guide is not required. Canon cameras that support AVF do not need to activate CCAPI to use it.

## 1.5. What can be Done with a Canon Camera

A Canon camera can be connected with an opposing device using the following connection format and communication protocols. Images stored on the recording media of the camera can then be acquired and operations such as shooting still images and movies or changing shooting parameters can be executed based on operating instructions from the opposing device.

The connection format for a Canon camera and opposing device is as follows.

- Wi-Fi
- Wired LAN

For the supported frequency bands, connection modes, and encryption systems, check the specifications of the Canon camera used. A WFT compatible camera can be connected via Wi-Fi using a WFT. A wired LAN compatible camera can be connected via a wired LAN.

The communication protocols used to connect a Canon camera and opposing device are as follows.

- UPnP
- HTTP

The UPnP information specific to Canon cameras is described in Chapter 2.

The HTTP functions specific to Canon cameras are described in Chapters 3 and 4.

These protocols operate on IPv4 and IPv6 networks. For the IP address resolution method, check the specifications of the respective Canon camera.

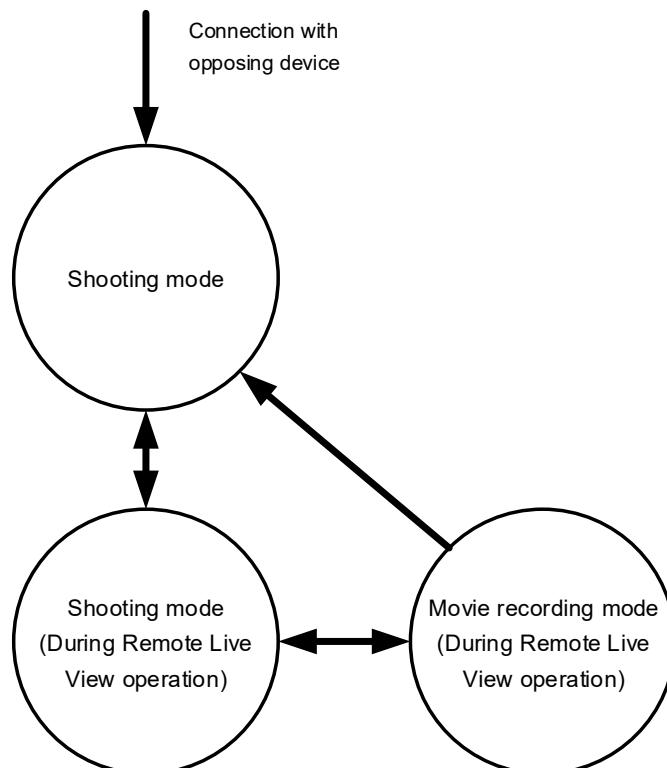
Canon cameras can be connected using HTTP authentication (digest authentication) by making the GUI menu setting.

Only one opposing device can be connected with a Canon camera. Operation is not assured when multiple opposing devices are connected simultaneously.

For information on Canon camera unit functions and operation methods, refer to the Canon camera operation manual.

## 1.6. Canon Camera Mode Transitions

Canon cameras have a number of operating modes, and the executable APIs differ according to the operating mode. This means that depending on the operating mode, an error may be returned when an API is executed, so be sure to create the program and control the Canon camera in accordance with the operating mode.



The main cautions are as follows.

- The opposing device cannot get Live View data if Remote Live View operation has not started.
  - In some Canon camera modes (during menu display or electronic zoom execution, etc.), it may not be possible to get Live View data even if Remote Live View operation has started.
- Shooting settings for movie recording cannot be changed unless operation transits to movie recording mode.
- When the mode has transitioned to movie recording mode, settings for still image shooting and other non-movie shooting cannot be changed.
- When the mode dial setting of the Canon camera is changed, the shooting settings that can be changed vary according to the mode dial type.
- The Canon camera can be directly operated even while connected with an opposing device. However, note that the Canon camera cannot be directly operated in some modes depending on the type of API executed from the opposing device.

## 2. Overview of Discovery

### 2.1. Overview of Discovery

This chapter describes the Device Discovery specifications for an opposing device to discover and initiate a connection with a Canon camera.

Canon cameras execute Device Discovery in compliance with UPnP. The UPnP protocol is used to recognize and control various devices connected on a network via multiple SSDP and HTTP protocols. For details of UPnP, refer to the Open Connectivity Foundation (OCF) website (<https://openconnectivity.org>).

### 2.2. Device and Control Point

When a Canon camera is executing Device Discovery, it behaves as a device in UPnP. Specifically, the camera executes Advertisement and provides a Device description to the connected network.

Therefore, the opposing device connected with the camera must behave as a control point in UPnP, receive the Advertisement from the camera, execute M-Search, and get the Device description of the camera.

### 2.3. Advertisement

The information described in the Header of the Advertisement Notify by a Canon camera is as follows.

**Advertisement Parameter**

Header	Value	Description
NT	“upnp:rootdevice”	Notify target
NT	“uuid:[UUID]”	Notify target
NT	“urn:schemas-upnp-org:device:ICPO-CameraControlAPIService:1”	Notify target *Original
NT	“urn:schemas-canon-com:service:ICPO-CameraControlAPIService:1”	Notify target *Original
USN	“uuid:[UUID]::upnp:rootdevice”	Service name
USN	“uuid:[UUID]”	Service name
USN	“uuid:[UUID]::urn:schemas-canon-com:device:ICPO-CameraControlAPIService:1”	Service name *Original
USN	“uuid:[UUID]::urn:schemas-canon-com:service:ICPO-”	Service name

	CameraControlAPIService:1"	*Original
Cache-Control	"1800"	Available period [sec]
NTS	ssdp:alive	Device status
Server	Camera OS/1.0 UPnP/1.0 Canon Device Discovery/1.0	Server

When an initiator (control point) receives the Advertisement packet of a Canon camera (device), the initiator must determine whether the camera is the connection target device by the USN "ICPO-CameraControlAPIService". If a service name that corresponds to the Advertisement packet is recognized, the initiator should execute the HTTP GET method and get the Device description.

The Notify Header multicast by the Canon camera is as follows.

#### e.g. Notify Header

```
 NOTIFY * HTTP/1.1
 Host: 239.255.255.250:1900
 Cache-Control: max-age=1800
 Location: http://192.168.1.2:49152/upnp/CameraDevDesc.xml
 NT: upnp:rootdevice:1
 NTS: ssdp:alive
 Server: Camera OS/1.0 UPnP/1.0 Canon Device Discovery/1.0
 USN: uuid:00000000-0000-0000-0001-0A0B0C0D0E0F::upnp:rootdevice
```

```
 NOTIFY * HTTP/1.1
 Host: 239.255.255.250:1900
 Cache-Control: max-age=1800
 Location: http://192.168.0.100:49152/upnp/CameraDevDesc.xml
 NT: uuid:00000000-0000-0000-0001-0A0B0C0D0E0F
 NTS: ssdp:alive
 Server: Camera OS/1.0 UPnP/1.0 Canon Device Discovery/1.0
 USN: uuid:00000000-0000-0000-0001-0A0B0C0D0E0F
```

```
 NOTIFY * HTTP/1.1
 Host: 239.255.255.250:1900
 Cache-Control: max-age=1800
 Location: http://192.168.1.2:49152/upnp/CameraDevDesc.xml
 NT: urn:schemas-canon-com:device:ICPO- CameraControlAPIService:1
 NTS: ssdp:alive
 Server: Camera OS/1.0 UPnP/1.0 Canon Device Discovery/1.0
 USN:uuid:00000000-0000-0000-0001-0A0B0C0D0E0F::urn:schemas-canon-com:device:ICPO-
 CameraControlAPIService:1
```

```
 NOTIFY * HTTP/1.1
 Host: 239.255.255.250:1900
```

```

Cache-Control: max-age=1800
Location: http://192.168.1.2:49152/upnp/CameraDevDesc.xml
NT: urn:schemas-canon-com:service:ICPO-CameraControlAPIService:1
NTS: ssdp:alive
Server: Camera OS/1.0 UPnP/1.0 Canon Device Discovery/1.0
USN:uuid:00000000-0000-0000-0001-0A0B0C0D0E0F::urn:schemas-canon-com:service:ICPO-
CameraControlAPIService:1

```

## 2.4. M-Search Response

When the control point (opposing device) executes M-Search, the Response from the Canon camera is as follows.

### e.g. M-Search Response

```

HTTP/1.1 200 OK
Cache-Control: max-age=1800
EXT:
Location: http://192.168.1.2:49152/upnp/CameraDevDesc.xml
Server: Camera OS/1.0 UPnP/1.0 Canon Device Discovery/1.0
ST: urn:schemas-canon-com:service:ICPO-CameraControlAPIService:1
USN:uuid:00000000-0000-0000-0001-0A0B0C0D0E0F::urn:schemas-canon-com:service:ICPO-
CameraControlAPIService:1

```

When a client executes M-Search, set the target service name in “ICPO-CameraControlAPIService”. The Canon camera (device) sends the Response shown above, so the client should then execute the HTTP GET method and get the Device description.

## 2.5. Device description

The tag definitions noted in the Device description provided by a Canon camera are as follows.

Tag Name	Tag Type	Value
deviceType	Standard	urn:schemas-canon-com:device:ICPO-CameraControlAPIService:1
friendlyName	Standard	Product name
Manufacturer	Standard	“Canon” (Fixed value)
manufacturerURL	Standard	“http://www.canon.com/” (Fixed value)
modelDescription	Standard	“Canon Digital Camera” (Fixed value)
modelName	Standard	Product name
serialNumber	Standard	Serial number
UDN	Standard	UUID (MAC Address)
serviceType	Standard	urn:schemas-canon-com:service:ICPO-CameraControlAPIService:1

serviceId	Standard	urn:schemas-canon-com:serviceId:ICPO-CameraControlAPIService-1
X_onService	Extend	0 : Disconnected 1 : Connected
X_accessURL	Extend	Camera Control API access URL
X_deviceNickname	Extend	Device nickname

The contents of the Device description XML file provided from a Canon camera are shown below for reference.

#### e.g. CameraDevDesc.xml

```

<?xml version="1.0"?>
<root xmlns="urn:schemas-upnp-org:device-1-0">
<specVersion>
<major>1</major>
<minor>0</minor>
</specVersion>
<URLBase>http://192.168.1.2:49152/upnp/</URLBase>
<device>
<deviceType>urn:schemas-canon-com:device:ICPO-CameraControlAPIService:1</deviceType>
<friendlyName>Digital Camera</friendlyName>
<manufacturer>Canon</manufacturer>
<manufacturerURL>http://www.canon.com/</manufacturerURL>
<modelDescription>Canon Digital Camera</modelDescription>
<modelName>Digital Camera</modelName>
<serialNumber>012345678901</serialNumber>
<UDN>uuid:00000000-0000-0607-0001-0A0B0C0D0E0F</UDN>
<serviceList>
<service>
<serviceType>urn:schemas-canon-com:service:ICPO-CameraControlAPIService:1</serviceType>
<serviceId>urn:schemas-canon-com:serviceId:ICPO-CameraControlAPIService-1</serviceId>
<SCPDURL>CameraSvcDesc.xml</SCPDURL>
<controlURL>control/CanonCamera/</controlURL>
<eventSubURL></eventSubURL>
<ns:X_onService xmlns:ns="urn:schemas-canon-com:schema-upnp">0</ns:X_onService>
<ns:X_accessURL xmlns:ns="urn:schemas-canon-com:schema-upnp">http://192.168.1.2:8080/ccapi</ns:X_accessURL>
<ns:X_deviceNickname xmlns:ns="urn:schemas-canon-com:schema-upnp">Camera</ns:X_deviceNickname>

```

```
</service>
</serviceList>
<presentationURL></presentationURL>
</device>
</root>
```

Reference the above tags and get the specific information of the camera that is the connection target.

To identify the individual unit, reference the UDN tag.

## 3. Overview of Camera Control APIs

### 3.1. Overview of CCAPIs

This chapter describes the common specifications of the Camera Control APIs (hereafter, CCAPIs), which are the camera control APIs supported by Canon cameras.

CCAPIs operate in compliance with HTTP as follows.

- HTTP1.1 compliant
- The Canon camera is the HTTP server and the opposing device is the HTTP client.
- The HTTP methods use GET, POST, PUT, and DELETE.
- The Canon camera returns a response to a request from the opposing device.

Refer to Chapter 4 for the detailed specifications of each supported API.

### 3.2. Digest Authentication

CCAPIs support digest authentication.

The user name, password, and other digest authentication settings can be set using the CCAPI menu of the Canon camera, so operate the Canon camera and make the necessary settings prior to connection with the opposing device. Refer to the Camera Control API Operation Guide for the setting method.

Once the settings are complete, if the request needed for digest authentication is not performed properly from the opposing device, communication with the Canon camera will not be possible.

### 3.3. API Common Specifications

#### 3.3.1. End point

The CCAPI common URI specifications are as follows.

##### URI

`http://[IPAddress]:[Port]/ccapi/[Version]`

**URI Parameters**

Name	Data Type	Description
IPAddress	string	IP address
Port	integer	Port number
Version	string	API version

### 3.3.2. Status codes

The HTTP status codes used by CC APIs are as follows.

Status Code	Status Message	Description
100	Continue	The client can continue the request. This indicates that the server has accepted and not yet rejected the request.
200	OK	This indicates that the processing was successful.
202	Accepted	This indicates that the request was accepted, but the processing results could not be returned, so a response was sent without waiting for the processing to complete.
206	Partial Content	This indicates that a resource was acquired by range designation.
400	Bad Request Invalid Request	This indicates that various requests are illegal.
401	Unauthorized	This indicates that digest authentication is enabled, and authentication failed.
403	Forbidden	This indicates that access was not allowed from the client. (Indicates that the origin was mismatched when the CORS setting was enabled.)
404	Not Found	This indicates that the resource designated by the URL was not found.
405	Method Not Allowed	This indicates that an invalid method was called. e.g.) - A CRUD method that cannot be executed by the designated URL - A method other than CRUD
409	Conflict	This indicates that an attempt was made to update a resource that cannot be accessed or is locked.
416	Range Not Satisfiable	This indicates that the resource range designation is outside the allowable range.
500	Internal Error	This indicates a server internal error.
503	Service Unavailable	This indicates that the service is unavailable. e.g.) - The request cannot be accepted in the processing state.

	<ul style="list-style-type: none"><li>- Shooting processing is in progress.</li><li>- The request cannot be made in the current mode.</li><li>- A shooting instruction request was received in the state without any request having been received.</li><li>- Live View has not started.</li><li>- A request was made again in the state with Live View or Get Event execution in progress.</li><li>- AF focusing failed during shooting.</li><li>- Shooting was performed in a state where storage write is not possible.</li><li>- DELETE was called even though no API is being executed.</li></ul>
--	---

### 3.3.3. Error response

The CCAPI error responses with messages and individual header information are as follows.

#### Response 400

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
message	string	Message

##### Message description

Message	Description
Illegal query parameter	The URL query parameter is illegal.
Illegal request header	The request header is illegal.
Illegal request body	The request body is illegal.
Illegal JSON syntax	The JSON syntax is illegal.
Invalid parameter	The request is not in line with the respective API specification.

##### JSON example

{ "message": "Illegal query parameter" }
--

#### Response 401

##### Headers

Header Field	Value
WWW-Authenticate	Authentication information

##### WWW-Authenticate

Name	Value
realm	"CameraControlApi"
nonce	Random character string
domain	Camera Control API access URL
opaque	GUID

algorithm	"MD5"
qop	"auth"

**Response 403****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	String	Message

**Message description**

Message	Description
Forbidden	Access not allowed

**JSON example**

```
{
    "message": "Forbidden"
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	Non-existent URL URL for contents not present in the storage area

**JSON example**

{
---

```
{
    "message": "URL not found"
}
```

**Response 405****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Method not allowed	An invalid method was requested.

**JSON example**

```
{
    "message": "Method not allowed"
}
```

**Response 409****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Card not available	The media is not mounted. The media is corrupted.
Card protected	The media is protected.
File protected	The contents are protected.
Partial deletion	The contents were partially deleted. (Some contents could not be deleted.)
Can not delete	Contents cannot be deleted in some states.

**JSON example**

```
{
  "message": "Card not available"
}
```

**Response 416****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Requested range not satisfiable	The contents range designation is outside the allowable range.

**JSON example**

```
{
  "message": "Requested range not satisfiable"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current

	mode.
Taken in preparation	Service preparation is in progress.
Live view not started	Live View has not started.
Already started	Processing has already started.
Out of focus	AF focusing failed during shooting.
Can not write to card	Data could not be recorded on the media during shooting.
Not started	The DELETE method was requested even though no API is being executed.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4. Specifications of Each API

### 4.1. Specifications of Each API

This chapter describes the specifications of each API provided by the Camera Control APIs, which are the camera control APIs supported by Canon cameras.

The specifications of each API are described divided into sections for each of the following function categories.

- Get List of APIs
- Get Camera Information (Fixed Values)
- Get Camera Information (Variable Values)
- Camera Settings
- Image Operations
- Shooting Control
- Shooting Settings
- Recording Information
- Live View
- Get Camera Status

Refer to Chapter 6 for sample sequences of each function that can be realized by combining the various APIs.

### 4.2. List of APIs

#### 4.2.1. List of supported APIs

##### URI

`http://[IPAddress]:[Port]/ccapi`

##### ■ Ver.1.0.0 compatible models

##### ■ GET

This gets a list of the APIs supported by the Canon camera.

The supported API URL and Method may differ depending on the model of the Canon camera and the firmware version.

It is recommended that the creator program execute each API by referring to the URL or Method acquired by this API.

In case of a Canon camera that support AVF, this API is not supported. To get the List of

supported APIs, reference the 4.2.2 List of supported APIs (For developers).

#### Example URI

GET http://192.168.1.2:8080/ccapi

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
ver***	array [Object of API]	List of APIs for each version. *** is a value that varies according to the version.

##### Object of API

JSON Field	Data Type	Description
url	string	API URL
get	boolean	GET method support
post	boolean	POST method support
put	boolean	PUT method support
delete	boolean	DELETE method support

**JSON example**

```
{
  "ver100": [
    {
      "url": "http://192.168.1.2:8080/ccapi/ver100/deviceinformation",
      "get": true,
      "post": false,
      "put": false,
      "delete": false
    },
    {
      "url": "http://192.168.1.2:8080/ccapi/ver100/devicestatus/storage",
      "get": true,
      "post": false,
      "put": false,
      "delete": false
    },
    ...
    ...
    ...
  ]
}
```

**■ Ver.1.1.0 compatible models****■ GET**

This gets a list of the APIs supported by the Canon camera.

The supported API PATH and Method may differ depending on the model of the Canon camera and the firmware version.

It is recommended that the creator program execute each API by referring to the PATH or Method acquired by this API.

In case of a Canon camera that support AVF, this API is not supported. To get the List of supported APIs, reference the 4.2.2 List of supported APIs (For developers).

**Example URI**

GET http://192.168.1.2:8080/ccapi

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
ver***	array [Object of API]	List of APIs for each version. *** is a value that varies according to the

		version.
--	--	----------

**Object of API**

JSON Field	Data Type	Description
path	string	API PATH
get	boolean	GET method support
post	boolean	POST method support
put	boolean	PUT method support
delete	boolean	DELETE method support

**JSON example**

```
{
  "ver100": [
    {
      "path": "/ccapi/ver100/deviceinformation",
      "get": true,
      "post": false,
      "put": false,
      "delete": false
    },
    {
      "path": "/ccapi/ver100/devicestatus/storage",
      "get": true,
      "post": false,
      "put": false,
      "delete": false
    },
    ...
    ...
    ...
  ],
  "ver110": [
    {
      "path": "/ccapi/ver110/functions/networkconnection",
      "get": true,
      "post": false,
      "put": false,
      "delete": false
    },
    {
      "path": "/ccapi/ver110/contents",
      "get": true,
      "post": false,
      "put": false,
      "delete": false
    },
    ...
    ...
    ...
  ]
}
```

```

    ]
}
```

### ■ Ver.1.2.0 compatible models

#### ■ GET

This gets a list of the APIs supported by the Canon camera.

The supported API PATH and Method may differ depending on the model of the Canon camera and the firmware version.

It is recommended that the creator program execute each API by referring to the PATH or Method acquired by this API.

In case of a Canon camera that support AVF, this API is not supported. To get the List of supported APIs, reference the 4.2.2 List of supported APIs (For developers).

#### Example URI

GET http://192.168.1.2:8080/ccapi

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
ver***	array [Object of API]	List of APIs for each version. *** is a value that varies according to the version.

##### Object of API

JSON Field	Data Type	Description
path	string	API PATH
get	boolean	GET method support
post	boolean	POST method support
put	boolean	PUT method support
delete	boolean	DELETE method support

##### JSON example

```
{
  "ver100": [

```

```
{  
    "path": "/ccapi/ver100/deviceinformation",  
    "get": true,  
    "post": false,  
    "put": false,  
    "delete": false  
},  
{  
    "path": "/ccapi/ver100/devicestatus/storage",  
    "get": true,  
    "post": false,  
    "put": false,  
    "delete": false  
},  
...  
...  
...  
]  
"ver110": [  
    {  
        "path": "/ccapi/ver110/functions/networkconnection",  
        "get": true,  
        "post": false,  
        "put": false,  
        "delete": false  
    },  
    {  
        "path": "/ccapi/ver110/shooting/settings/shuttermode",  
        "get": true,  
        "post": false,  
        "put": true,  
        "delete": false  
    },  
    ...  
    ...  
    ...  
]  
"ver120": [  
    {  
        "path": "/ccapi/ver120/contents",  
        "get": true,  
        "post": false,  
        "put": false,  
        "delete": false  
    },  
    ...  
    ...  
    ...  
]  
}
```

■ **Ver.1.3.0 compatible models**

■ **GET**

This gets a list of the APIs supported by the Canon camera.

The supported API PATH and Method may differ depending on the model of the Canon camera and the firmware version.

It is recommended that the creator program execute each API by referring to the PATH or Method acquired by this API.

In case of a Canon camera that support AVF, this API is not supported. To get the List of supported APIs, reference the 4.2.2 List of supported APIs (For developers).

**Example URI**

GET http://192.168.1.2:8080/ccapi

**Response 200**

**Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
ver***	array [Object of API]	List of APIs for each version. *** is a value that varies according to the version.

**Object of API**

JSON Field	Data Type	Description
path	string	API PATH
get	boolean	GET method support
post	boolean	POST method support
put	boolean	PUT method support
delete	boolean	DELETE method support

**JSON example**

```
{
  "ver100": [
    {
      "path": "/ccapi/ver100/deviceinformation",
      "get": true,
      "post": false,
      "put": false,
```

```
        "delete": false
    },
    {
        "path": "/ccapi/ver100/devicestatus/storage",
        "get": true,
        "post": false,
        "put": false,
        "delete": false
    },
    ...
    ...
    ...
]
"ver110": [
    {
        "path": "/ccapi/ver110/functions/networkconnection",
        "get": true,
        "post": false,
        "put": false,
        "delete": false
    },
    {
        "path": "/ccapi/ver110/shooting/settings/shuttermode",
        "get": true,
        "post": false,
        "put": true,
        "delete": false
    },
    ...
    ...
    ...
]
"ver130": [
    {
        "path": "/ccapi/ver130/contents",
        "get": true,
        "post": false,
        "put": false,
        "delete": false
    },
    ...
    ...
    ...
]
}
```

## 4.2.2. List of supported APIs (For developers)

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/topurlfordev`

#### ■ Ver.1.0.0 compatible models

#### ■ GET

This gets a list of the APIs supported by the Canon camera.

The supported API URL and Method may differ depending on the model of the Canon camera and the firmware version.

It is recommended that the creator program execute each API by referring to the URL or Method acquired by this API.

In case of a Canon camera that support AVF, The List of supported APIs can get using this API.

### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/topurlfordev`

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
ver***	array [Object of API]	List of APIs for each version. *** is a value that varies according to the version.

#### Object of API

JSON Field	Data Type	Description
url	string	API URL
get	boolean	GET method support
post	boolean	POST method support
put	boolean	PUT method support
delete	boolean	DELETE method support

**JSON example**

```
{
  "ver100": [
    {
      "url": "http://192.168.1.2:8080/ccapi/ver100/deviceinformation",
      "get": true,
      "post": false,
      "put": false,
      "delete": false
    },
    {
      "url": "http://192.168.1.2:8080/ccapi/ver100/devicestatus/storage",
      "get": true,
      "post": false,
      "put": false,
      "delete": false
    },
    ...
    ...
    ...
  ]
}
```

**■ Ver.1.1.0 compatible models****■ GET**

This gets a list of the APIs supported by the Canon camera.

The supported API PATH and Method may differ depending on the model of the Canon camera and the firmware version.

It is recommended that the creator program execute each API by referring to the PATH or Method acquired by this API.

In case of a Canon camera that support AVF, The List of supported APIs can get using this API.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver100/topurlfordev

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
ver***	array [Object of API]	List of APIs for each version. *** is a value that varies according to the version.

**Object of API**

JSON Field	Data Type	Description
path	string	API URL
get	boolean	GET method support
post	boolean	POST method support
put	boolean	PUT method support
delete	boolean	DELETE method support

**JSON example**

```
{
  "ver100": [
    {
      "path": "/ccapi/ver100/deviceinformation",
      "get": true,
      "post": false,
      "put": false,
      "delete": false
    },
    {
      "path": "/ccapi/ver100/devicestatus/storage",
      "get": true,
      "post": false,
      "put": false,
      "delete": false
    },
    ...
    ...
    ...
  ]
  "ver110": [
    {
      "path": "/ccapi/ver110/functions/networkconnection",
      "get": true,
      "post": false,
      "put": false,
      "delete": false
    },
    {
      "path": "/ccapi/ver110/contents",
      "get": true,
      "post": false,
      "put": false,
      "delete": false
    },
    ...
    ...
    ...
  ]
}
```

```
}
```

### ■ Ver.1.2.0 compatible models

#### ■ GET

This gets a list of the APIs supported by the Canon camera.

The supported API PATH and Method may differ depending on the model of the Canon camera and the firmware version.

It is recommended that the creator program execute each API by referring to the PATH or

Method acquired by this API.

In case of a Canon camera that support AVF, The List of supported APIs can get using this API.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/topurlfordev

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
ver***	array [Object of API]	List of APIs for each version. *** is a value that varies according to the version.

##### Object of API

JSON Field	Data Type	Description
path	string	API URL
get	boolean	GET method support
post	boolean	POST method support
put	boolean	PUT method support
delete	boolean	DELETE method support

##### JSON example

```
{
  "ver100": [
    {
      "path": "/ccapi/ver100/deviceinformation",
      "get": true,
      "post": false,
```

```
        "put": false,
        "delete": false
    },
    {
        "path": "/ccapi/ver100/devicestatus/storage",
        "get": true,
        "post": false,
        "put": false,
        "delete": false
    },
    ...
    ...
    ...
]
"ver110": [
    {
        "path": "/ccapi/ver110/functions/networkconnection",
        "get": true,
        "post": false,
        "put": false,
        "delete": false
    },
    {
        "path": "/ccapi/ver110/shooting/settings/shuttermode",
        "get": true,
        "post": false,
        "put": true,
        "delete": false
    },
    ...
    ...
    ...
]
"ver120": [
    {
        "path": "/ccapi/ver120/contents",
        "get": true,
        "post": false,
        "put": false,
        "delete": false
    },
    ...
    ...
    ...
]
}
```

## 4.3. Camera Information (Fixed Values)

### 4.3.1. Camera fixed information

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/deviceinformation

#### ■ GET

This gets the fixed information of the Canon camera.

This enables to get fixed information that does not depend on the Canon camera status, such as the product name and serial number.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/deviceinformation

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
manufacturer	string	Manufacturer
productname	string	Product name
guid	string	GUID
serialnumber	string	Serial number
macaddress	string	MAC address
firmwareversion	string	Firmware version

##### JSON example

```
{  
    "manufacturer": "Canon, Inc",  
    "productname": "Canon EOS",  
    "guid": "0123456789abcdef0123456789abcdef",  
    "serialnumber": "123456789012",  
    "macaddress": "a1:b2:c3:d4:e5:f6",  
    "firmwareversion": "1.1.0"  
}
```

## 4.4. Camera Status (Variable Values)

### 4.4.1. Storage information

#### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/devicestatus/storage`

#### ■ Ver.1.0.0

#### ■ GET

This gets the information of the media storage mounted in the Canon camera.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/devicestatus/storage`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
storagelist	array [Object of storage]	Storage list

##### Object of storage

JSON Field	Data Type	Description
name	string	Storage name
url	string	Storage URL
accesscapability	string	Access capability
maxize	integer	Maximum storage size (byte)
spacesize	integer	Available storage space (byte)
contentsnumber	integer	Total number of contents

##### Value of accesscapability

Name	Description
readwrite	Read/write
readonly	Read-only

**JSON example**

- When media is mounted

```
{  
    "storagelist": [  
        {  
            "name": "sd",  
            "url": "http://192.168.1.2:8080/ccapi/ver100/contents/sd",  
            "accesscapability": "readwrite",  
            "maxsize": 4016570368,  
            "spacesize": 3800924160,  
            "contentsnumber": 511  
        }  
    ]  
}
```

- When media is not mounted

```
{  
    "storagelist": []  
}
```

**■ Ver.1.1.0****■ GET**

This gets the information of the media storage mounted in the Canon camera.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver110/devicestatus/storage

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
storagelist	array [Object of storage]	Storage list

**Object of storage**

JSON Field	Data Type	Description
name	string	Storage name
path	string	Storage PATH
accesscapability	string	Access capability
maxsize	integer	Maximum storage size (byte)
spacesize	integer	Available storage space (byte)
contentsnumber	integer	Total number of contents

**Value of accesscapability**

Name	Description
readwrite	Read/write
readonly	Read-only

**JSON example**

➤ When media is mounted

```
{
  "storagelist": [
    {
      "name": "card1",
      "path": "/ccapi/ver110/contents/card1",
      "accesscapability": "readwrite",
      "maxsize": 4016570368,
      "spacesize": 3985478400
    }
  ]
}
```

```
        "spacesize": 3800924160,
        "contentsnumber": 511
    },
    {
        "name": "card2",
        "path": "/ccapi/ver110/contents/card2",
        "accesscapability": "readwrite",
        "maxsize": 4016570368,
        "spacesize": 3800924160,
        "contentsnumber": 511
    }
]
```

- When media is not mounted

```
{
    "storagelist": []
}
```

#### 4.4.2. Current storage information

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/devicestatus/currentstorage

##### ■ GET

This gets the storage information of the media storage set as the recording destination among the media storage mounted in the Canon camera.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/devicestatus/currentstorage

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
name	string	Storage name
path	string	Storage PATH

###### JSON example

➤ When media is mounted

```
{  
  {  
    "name": "card1",  
    "path": "/ccapi/ver110/contents/card1"  
  }  
}
```

➤ When media is not mounted

```
{  
  {  
    "name": "",  
    "path": ""  
  }  
}
```

### 4.4.3. Current directory information

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/devicestatus/currentdirectory

#### ■ GET

This gets the directory information of the directory set as the recording destination.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/devicestatus/currentdirectory

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
name	string	Directory name
path	string	Directory PATH

##### JSON example

- When media is mounted

```
{  
  {  
    "name": "100EOS1D",  
    "path": "/ccapi/ver110/contents/card1/100EOS1D"  
  }  
}
```

- When media is not mounted

```
{  
  {  
    "name": "",  
    "path": ""  
  }  
}
```

#### 4.4.4. Battery information

##### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/devicestatus/battery`

##### ■ GET

This gets the information of the battery mounted in the Canon camera.

When the battery grip is attached, This API cannot get detailed battery information..When attaching the battery grip, execute API (/batterylist).

##### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/devicestatus/battery`

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
name	string	Battery name
kind	string	Battery kind
level	string	Battery charge level
quality	string	Degree of battery degradation

###### Value of kind

Name	Description
battery	Lithium-ion
not_inserted	Battery not inserted
ac_adapter	AC
dc_coupler	DC coupler (dry cell)
unknown	Unauthenticated battery
batterygrip	Battery grip

###### Value of level

Name	Description
low	Soon to be empty

quarter	Low charge level
half	Half charge level
high	High charge level
full	Full charge level
unknown	Unauthenticated battery
charge	Charging
chargestop	Stopped charging
chargecomp	Completed charging

**Value of quality**

Name	Description
bad	Large degree of degradation (Battery replacement is recommended.)
normal	Slight degree of degradation
good	No degradation
unknown	Unauthenticated battery

**JSON example**

- In case of an authenticated battery

```
{
  "name": "LP-E12",
  "kind": "battery",
  "level": "full",
  "quality": "good"
}
```

- In case of an unauthenticated battery

```
{
  "name": "unknown",
  "kind": "unknown",
  "level": "unknown",
  "quality": "unknown"
}
```

#### 4.4.5. Battery information list

##### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/devicestatus/batterylist`

##### ■ GET

This gets the information of the battery mounted in the Canon camera and battery grip.

##### Example URI

GET `http://192.168.1.2:8080/ccapi/ver110/devicestatus/batterylist`

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
batterylist	array [Object of battery]	Battery list

###### Object of battery

JSON Field	Data Type	Description
position	string	Battery position
name	string	Battery name
kind	string	Battery kind
level	string	Battery level
quality	string	Battery quality

###### Value of position

Name	Description
camera	Camera body
grip01	Battery grip
grip02	Battery grip

###### Value of kind

Name	Description
battery	Lithium-ion

not_inserted	Battery not inserted
ac_adapter	AC
dc_coupler	DC coupler(dry cell)
unknown	Unauthenticated battery

**Value of level**

Name	Description
0 to 100	Charge level (%)
unknown	Unauthenticated battery

**Value of quality**

Name	Description
bad	Large degree of degradation (Battery replacement is recommended.)
normal	Slight degree of degradation
good	No degradation
unknown	Unauthenticated battery

**JSON example**

- When the battery grip is attached

```
{"batterylist": [
    {
        "position": "grip02",
        "kind": "battery",
        "name": "LP-E6",
        "quality": "good",
        "level": "100"
    },
    {
        "position": "grip01",
        "kind": "battery",
        "name": "LP-E6",
        "quality": "normal",
        "level": "50"
    }
]}
```

- When the battery grip is not attached

```
{"batterylist": [
    {
        "position": "camera",
        "kind": "battery",
        "name": "LP-E6",
        "quality": "good",
        "level": "100"
    }
]}
```

#### 4.4.6. Lens information

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/devicestatus/lens

##### ■ GET

This gets the information of the lens mounted on the Canon camera.

In case of a Canon camera that is not an interchangeable lens type, this API is not supported.

Check the Canon camera used.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/devicestatus/lens

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
mount	boolean	Mounting status
name	string	Lens name

###### JSON example

- When a lens is mounted

```
{  
    "mount": true,  
    "name": "EF50mm f/1.8 II"  
}
```

- When a lens is not mounted

```
{  
    "mount": false,  
    "name": ""  
}
```

#### 4.4.7. Temperature warning information

##### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/devicestatus/temperature`

##### ■ GET

This gets the Canon camera restriction information based on the internal temperature of the Canon camera.

Restrictions apply to Canon camera functions according to the internal temperature, so it is recommended to change the Canon camera control based on the acquired information.

##### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/devicestatus/temperature`

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
status	string	Internal temperature status

###### Value of status

Name	Description
normal	Normal status
warning	Warning indication status
framerateardown	Reduced frame rate
disableliveview	Live View prohibited status
disablerelease	Shooting prohibited status
stillqualitywarning	Degraded still image quality warning
restrictionmovierecording	Restriction movie recording status
warning_and_restrictionmovierecording	Warning indication and restriction movie recording status
framerateardown_and_restrictionmovierecording	Reduced frame rate and restriction movie recording status
disableliveview_and_restrictionmovierecording	Live View prohibited and restriction

	movie recording status
disablerelase_and_restrictionmovierecording	Shooting prohibited and restriction movie recording status
stillqualitywarning_and_restrictionmovierecording	Degraded still image quality warning and restriction movie recording status

**JSON example**

```
{  
    "status": "normal"  
}
```

## 4.5. Camera Settings

### 4.5.1. Copyright holder name

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/registeredname/copyright

#### ■ GET

This gets the copyright holder name set in the Canon camera.

In case of a Canon camera that support AVF, this API is not supported. Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/functions/registeredname/copyright

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
copyright	string	Copyright holder name

##### JSON example

```
{  
    "copyright": "xxx"  
}
```

#### ■ PUT

This updates the copyright holder name set in the Canon camera.

The Canon camera cannot be operated while updating is in progress.

The set value will be recorded in Exif and other image metadata of shot images.

#### Example URI

PUT http://192.168.1.2:8080/ccapi/ver100/functions/registeredname/copyright

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Type	Description
copyright	string	Copyright holder name - ASCII character codes only - Maximum 63 characters

**JSON example**

```
{
    "copyright": "yyy"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
copyright	string	Copyright holder name

**JSON example**

```
{
    "copyright": "yyy"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	copyright is an illegal value. - Nonexistent value - Non-string value - The number of input characters exceeds the maximum value. - Illegal character code

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This deletes the copyright holder name set in the Canon camera.

When deletion is complete, the value becomes empty.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/functions/registeredname/copyright

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
copyright	string	Copyright holder name

**JSON example**

```
{  
    "copyright": ""  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

### 4.5.2. Author name

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/registeredname/author

#### ■ GET

This gets the author name set in the Canon camera.

In case of a Canon camera that support AVF, this API is not supported. Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/functions/registeredname/author

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
author	string	Author name

##### JSON example

```
{  
    "author": "xxx"  
}
```

#### ■ PUT

This updates the author name set in the Canon camera.

The Canon camera cannot be operated while updating is in progress.

The set value will be recorded in Exif and other image metadata of shot images.

#### Example URI

PUT http://192.168.1.2:8080/ccapi/ver100/functions/registeredname/author

##### Request

##### Headers

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

Field	Type	Description
author	string	Author name - ASCII character codes only - Maximum 63 characters

**JSON example**

```
{
    "author": "yyy"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
author	string	Author name

**JSON example**

```
{
    "author": "yyy"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	author is an illegal value. - Nonexistent value

	<ul style="list-style-type: none"> <li>- Non-string value</li> <li>- The number of input characters exceeds the maximum value.</li> <li>- Illegal character code</li> </ul>
--	---

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This deletes the author name set in the Canon camera.

When deletion is complete, the value becomes empty.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/functions/registeredname/author

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
author	string	Author name

**JSON example**

```
{  
    "author": ""  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

### 4.5.3. Owner name

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/registeredname/ownername

#### ■ GET

This gets the owner name set in the Canon camera.

In case of a Canon camera that support AVF, this API is not supported. Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/functions/registeredname/ownername

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
ownername	string	Owner name

##### JSON example

```
{  
    "ownername": "xxx"  
}
```

#### ■ PUT

This updates the owner name set in the Canon camera.

The Canon camera cannot be operated while updating is in progress.

The set value will be recorded in Exif and other image metadata of shot images.

#### Example URI

PUT http://192.168.1.2:8080/ccapi/ver100/functions/registeredname/ownername

##### Request

##### Headers

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

Field	Type	Description
ownername	string	Owner name

**JSON example**

```
{
  "ownername": "yyy"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
ownername	string	Owner name <ul style="list-style-type: none"> <li>- ASCII character codes only</li> <li>- Maximum 31 characters</li> </ul>

**JSON example**

```
{
  "ownername": "yyy"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	ownername is an illegal value. <ul style="list-style-type: none"> <li>- Nonexistent value</li> </ul>

	<ul style="list-style-type: none"> <li>- Non-string value</li> <li>- The number of input characters exceeds the maximum value.</li> <li>- Illegal character code</li> </ul>
--	---

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This deletes the owner name set in the Canon camera.

When deletion is complete, the value becomes empty.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/functions/registeredname/ownername

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
ownername	string	Owner name

**JSON example**

```
{  
    "ownername": ""  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.5.4. Nickname

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/registeredname/nickname

##### ■ GET

This gets the nickname used for Wi-Fi connection set in the Canon camera.

In case of a Canon camera that support AVF, this API is not supported. Check the Canon camera used.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/functions/registeredname/nickname

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
nickname	string	Nickname

###### JSON example

```
{  
    "nickname": "xxx"  
}
```

##### ■ PUT

This updates the nickname used for Wi-Fi connection set in the Canon camera.

The nickname is described in the Device description of Device Discovery.

The number of nickname characters that can be set differs according to the model, so check the specifications of the Canon camera used.

##### Example URI

PUT http://192.168.1.2:8080/ccapi/ver100/functions/registeredname/nickname

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Type	Description
nickname	string	Nickname - ASCII character codes only - The number of characters that can be set is 1 to 8 characters, or 16 or fewer characters.

**JSON example**

```
{
  "nickname": "yyy"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
nickname	string	Nickname

**JSON example**

```
{
  "nickname": "yyy"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>nickname is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- One or more characters is not input.</li> <li>- The number of input characters exceeds the maximum value.</li> <li>- Illegal character code</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This initializes the nickname.

When deletion is complete, the value returns to the default.

**Example URI**

```
DELETE http://192.168.1.2:8080/ccapi/ver100/functions/registeredname/nickname
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
nickname	string	Nickname (default)

**JSON example**

```
{
    "nickname": "xxx"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```



#### 4.5.5. Date and time

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/datetime

##### ■ GET

This gets the date and time set in the Canon camera.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/functions/datetime

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
datetime	string	Date and time (RFC1123 compliant)
dst	boolean	Daylight saving time

###### JSON example

```
{  
    "datetime": "Tue, 01 Jan 2019 01:23:45 +0900",  
    "dst": false  
}
```

##### ■ PUT

This changes the date and time set in the Canon camera.

To set daylight saving time correctly, enter the time that takes into account daylight saving time in “datetime”, and set “true” in “dst”.

##### Example URI

PUT http://192.168.1.2:8080/ccapi/ver100/functions/datetime

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
datetime	string	Date and time (RFC1123 compliant)
dst	boolean	Daylight saving time

**JSON example**

```
{
  "datetime": "Fri, 01 Feb 2019 23:34:50 -0100",
  "dst": true
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
datetime	string	Date and time (RFC1123 compliant)
dst	boolean	Daylight saving time

**JSON example**

```
{
  "datetime": "Fri, 01 Feb 2019 23:34:50 -0100",
  "dst": true
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

<b>Message</b>	<b>Description</b>
Invalid parameter	<p>datetime is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- Not compliant with RFC format (number of characters of each element, number and position of spaces, element order, element range, 1900 or later, etc.)</li> <li>- The time difference is not 15 minute units.</li> </ul> <p>dst is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-boolean value</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

<b>Header Field</b>	<b>Value</b>
Content-Type	application/json

**Body**

<b>JSON Field</b>	<b>Data Type</b>	<b>Description</b>
message	string	Message

**Message description**

<b>Message</b>	<b>Description</b>
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
  "message": "Device busy"
}
```

#### 4.5.6. Format

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/cardformat

##### ■ POST

This executes formatting of the storage.

##### Example URI

POST http://192.168.1.2:8080/ccapi/ver100/functions/cardformat

##### Request

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
name	string	Storage name

###### JSON example

```
{  
    "name": "card1"  
}
```

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

Empty JSON object

###### JSON example

```
{}
```

##### Response 400

###### Headers

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	name is an illegal value. - Nonexistent value - Non-string value

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 409****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Card not available	The media is not mounted. The media is corrupted.
Card protected	The media is protected.

**JSON example**

```
{
  "message": "Card not available"
}
```

**Response 503****Headers**

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.5.7. Mute setting

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/beep

##### ■ GET

This gets the present value and ability values of the mute setting.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/functions/beep

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

###### Value of value

Name	Description
enable	Beep sound enabled
disable	Beep sound disabled
disabletouch	Beep sound disabled only for touch sound

###### JSON example

```
{  
    "value": "enable",  
    "ability": ["enable", "disable", "disabletouch"]  
}
```

##### ■ PUT

This changes the mute setting.

##### Example URI

PUT http://192.168.1.2:8080/ccapi/ver100/functions/beep

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
    "value": "disable"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "disable"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description

Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.
-------------------	---

**JSON example**

```
{  
    "message": "Invalid parameter"  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.5.8. Auto Display Off setting

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/displayoff

#### ■ GET

This gets the present value and ability values of the Auto Display Off setting.

For the values that this API can take, check the Auto Display Off setting support situation of the Canon camera used. In case of a Canon camera with an optical viewfinder, this API is not supported. Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/functions/displayoff

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
10	Time until display off: 10 seconds
20	Time until display off: 20 seconds
30	Time until display off: 30 seconds
60	Time until display off: 60 seconds
120	Time until display off: 120 seconds
180	Time until display off: 180 seconds

##### JSON example

```
{  
    "value": "60",  
    "ability": ["10", "20", "30", "60", "120", "180"]  
}
```

**■ PUT**

This changes the Auto Display Off setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/functions/displayoff

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{  
    "value": "60"  
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{  
    "value": "60"  
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- A value not present in ability is input.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
  "message": "Device busy"
}
```

## 4.5.9. Auto Power Off setting

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/functions/autopoweroff`

#### ■ GET

This gets the present value and ability values of the Auto Power Off setting.

For the values that this API can take, check the Auto Power Off setting support situation of the Canon camera used. The Auto Power Off function does not operate while CCAPI is started. For details of the Auto Power Off function, check the Canon camera used.

If you specify “immediately” as the value, the camera exits CCAPI and immediately enters the Auto Power Off (Sleep) state.

### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/functions/autopoweroff`

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

#### Value of value

Name	Description
30	Time until power off: 30 seconds
60	Time until power off: 60 seconds
120	Time until power off: 120 seconds
180	Time until power off: 180 seconds
300	Time until power off: 300 seconds
600	Time until power off: 600 seconds
disable	Disabled (Power off is not performed.)
immediately	Exits CCAPI and immediately enters the Auto Power Off (Sleep) state.

**JSON example**

```
{  
    "value": "disable",  
    "ability": ["30", "60", "180", "300", "600", "disable"]  
}
```

**■ PUT**

This changes the Auto Power off setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/functions/autopoweroff

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{  
    "value": "disable"  
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{  
    "value": "disable"  
}
```

**Response 202****Headers**

Header Field	Value
Content-Type	application/json

**Body**

空の JSON オブジェクト

**JSON example**

{}

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Taken in preparation	Service preparation is in progress. - When the API first called in the connection standby state was this API (The connection is not yet complete, so the process cannot be accepted.)

**JSON example**

```
{  
    "message": "Device busy"  
}
```



## 4.5.10. Sensor Cleaning

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/sensorcleaning

### ■ POST

This executes the Sensor Cleaning.

#### Example URI

POST http://192.168.1.2:8080/ccapi/ver100/functions/sensorcleaning

#### Request

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
autopoweroff	bool	Whether to perform auto power-off after sensor cleaning

##### JSON example

```
{  
    "autopoweroff":true  
}
```

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

Empty JSON object

##### JSON example

```
[]
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
Message	string	Message

**Message description**

Message	Description
Invalid parameter	Autopoweroff is an illegal value. - Nonexistent value - Non-boolean value

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
Message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

```
}
```

#### 4.5.11. Network disconnect / reboot

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/networkconnection

##### ■ POST

This executes disconnection of the communication connection or reboot the camera.

When disconnection is executed, the communication connection is disconnected and CCAPI is exited. To use CCAPI again, operate the camera menu and perform the communication connection operation again.

When the reboot is executed, the communication connection is disconnected, CCAPI is terminated, and the reboot is performed using the connection setting (SET) used before the reboot.

In case of a Canon camera that supports only Wi-Fi, this API is not supported. Check the Canon camera used.

##### Example URI

POST http://192.168.1.2:8080/ccapi/ver110/functions/networkconnection

##### Request

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
action	string	Communication connection operation

###### Value of action

Name	Description
disconnect	Communication disconnection
reboot	reboot the camera

###### JSON example

```
{
    "action": "disconnect"
}
```

**Response 202****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

```
{}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	action is an illegal value. - Nonexistent value - Non-string value - An unanticipated character string is input.

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Taken in preparation	Service preparation is in progress. - When the API first called in the connection standby state was this API (The connection is not yet complete, so the process cannot be accepted.)

**JSON example**

{ "message": "Taken in preparation" }
---

## 4.5.12. List of Network setting APIs

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/functions/networksetting`

#### ■ GET

This gets a list of the Network setting APIs supported by the Canon camera.

In case of a Canon camera that only support Wi-Fi, this API is not supported. Check the Canon camera used.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver110/functions/networksetting`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
ver***	array [Object of API]	List of APIs for each version. *** is a value that varies according to the version.

##### Object of API

JSON Field	Data Type	Description
path	string	API PATH
get	boolean	GET method support
post	boolean	POST method support
put	boolean	PUT method support
delete	boolean	DELETE method support

##### JSON example

```
{
  "ver110": [
    {
      "path": "/ccapi/ver110/functions/networksetting",
      "get": true,
      "post": false,
      "put": false,
```

```
        "delete": false
    },
    {
        "path": "/ccapi/ver110/functions/networksetting/currentconnectionsetting",
        "get": true,
        "post": false,
        "put": true,
        "delete": false
    },
    ...
    ...
]
}
```

### 4.5.13. Current Connection settings (SET)

#### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/functions/networksetting/currentconnectionsetting`

#### ■ GET

This gets the connection settings (SET) that are currently running and that can be changed.

The only connection settings (SET) that can be changed are those initiated by CCAPI.

In case of a Canon camera that only support Wi-Fi, this API is not supported. Check the Canon camera used.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver110/functions/networksetting/currentconnectionsetting`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
set01	Connection settings (SET1)
set02	Connection settings (SET2)
...	...
set20	Connection settings (SET20)

##### JSON example

```
{
  "value": "set01",
  "ability": ["set01", "set02"]
}
```

**■ PUT**

This changes the connection settings (SET) that are currently running.

After executing this API, CCAPI will restart with the changed connection settings (SET).

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver110/functions/networksetting/currentconnectionsetting

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{  
    "value": "set02"  
}
```

**Response 202****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

```
[]
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description

message	string	Message
---------	--------	---------

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- A value not present in ability is input</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

#### 4.5.14. Get lis of Connection settings (SET)

##### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/functions/networksetting/connectionsetting`

##### ■ GET

This gets the list of connection setting (SET) information saved in the Canon camera.

##### Example URI

`GET http://192.168.1.2:8080/ccapi/ver110/functions/networksetting/connectionsetting`

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
set01	Object of connectionsetting	Connection settings (SET1)
set02	Object of connectionsetting	Connection settings (SET2)
...	...	...
set20	Object of connectionsetting	Connection settings (SET20)

###### Object of connectionsetting

JSON Field	Data Type	Description
commsetting	array [string]	Communication settings (NW)
functionsetting	array [string]	Function settings (MODE)

###### Value of commsetting

Name	Description
unspecified	Unspecified
nw01	Communication settings (NW1)
nw02	Communication settings (NW2)
...	...
nw25	Communication settings (NW25)

**Value of functionsetting**

Name	Description
unspecified	Unspecified
mode01	Function settings (MODE1)
mode02	Function settings (MODE2)
...	...
mode25	Function settings (MODE25)

**JSON example**

```
{  
    "set01": {  
        "commsetting": ["nw01", "unspecified"],  
        "functionsetting": ["mode01", "unspecified"]  
    },  
    "set02": {  
        "commsetting": ["nw02", "unspecified"],  
        "functionsetting": ["mode03", "unspecified"]  
    },  
    ...  
    ...  
    ...  
}
```

## 4.5.15. Connection settings (SET)

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/networksetting/connectionsetting/set\*\*

#### ■ GET

This gets the connection settings (SET) saved in the Canon camera.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/functions/networksetting/connectionsetting/set01

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

Refer to "Object of connectionsetting" of "Get list of Connection settings (SET)" for the JSON data structures.

##### JSON example

```
{  
    "commsetting": ["nw01", "unspecified"],  
    "functionsetting": ["mode01", "unspecified"]  
}
```

#### ■ PUT

This changes the connection settings (SET) saved in the Canon camera.

In "requisition", you can enter only 1 valid communication settings (NW).

In "functionsetting", you can enter only 1 valid function settings (MODE).

Connection settings (SET) changed with this API are saved to the Canon camera after execution of this API, but are not reflected in the operation. It takes effect when CCAPI is restarted.

##### Example URI

PUT http://192.168.1.2:8080/ccapi/ver110/functions/networksetting/connectionsetting/set01

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Refer to “Object of connectionsetting” of “Get list of Connection settings (SET)” for the JSON data structures.

**JSON example**

```
{
  "commsetting": ["nw01", "unspecified"],
  "functionsetting": ["mode01", "unspecified"]
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Refer to “Object of connectionsetting” of “Get list of Connection settings (SET)” for the JSON data structures.

**JSON example**

```
{
  "commsetting": ["nw01", "unspecified"],
  "functionsetting": ["mode01", "unspecified"]
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description

Invalid parameter	<p>commsetting is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Number of elements is not 2</li> <li>- Non-string value</li> <li>- An unanticipated character string is input</li> <li>- An invalid communication settings (NW) is input</li> <li>- 2 communication settings (NW) are input</li> <li>functionsetting is an illegal value.</li> <li>- Nonexistent value</li> <li>- Number of elements is not 2</li> <li>- Non-string value</li> <li>- An unanticipated character string is input</li> <li>- An invalid function settings (MODE) is input</li> </ul>
-------------------	--

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

## ■ DELETE

This deletes the connection settings (SET) saved in the Canon camera.

Connection settings (SET) deleted with this API are deleted to the Canon camera after execution of this API, but are not reflected in the operation. It takes effect when CCAPI is restarted.

### Example URI

DELETE http://192.168.1.2:8080/ccapi/ver100/functions/wifisetting/set1

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON has the same data structure as "GET". Refer to "GET" in "Body".

#### JSON example

```
{
  "commsetting": ["unspecified", "unspecified"],
  "functionsetting": ["unspecified", "unspecified"]
}
```

### Response 503

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
message	string	Message

#### Message description

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current

	mode.
--	-------

**JSON example**

{ "message": "Device busy" }
------------------------------------

## 4.5.16. Get list of Communication settings (NW)

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/functions/networksetting/commsetting`

#### ■ GET

This gets the list of communication setting (NW) information saved in the Canon camera.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver110/functions/networksetting/commsetting`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
nw01	Object of commsetting	Communication settings (NW1)
nw02	Object of commsetting	Communication settings (NW2)
...	...	...
nw25	Object of commsetting	Communication settings (NW25)

##### Object of commsetting

JSON Field	Data Type	Description
lantype	string	LAN type
ssid	string	SSID
method	string	Connection method
channel	string	Channel
authentication	string	Authentication
encryption	string	Encryption
keyindex	string	Key index
password	string	Password
ipv4_ipaddressset	string	TCP/IPV4 IP address setting
ipv4_ipaddress	string	TCP/IPV4 IP address
ipv4_subnetmask	string	TCP/IPV4 Subnet mask

ipv4_gateway	string	TCP/IPV4 Gateway
ipv6_useipv6	string	TCP/IPV6 TCP/IPV6 setting
ipv6_manual_setting	string	TCP/IPV6 Manual setting
ipv6_manual_address	string	TCP/IPV6 Manual address
ipv6_prefixlength	string	TCP/IPV6 Prefix length
ipv6_gateway	string	TCP/IPV6 Gateway

**Value of lantype**

Name	Description
ether	有線 LAN
wft	WFT
wifi	Wi-Fi

**Value of method**

Name	Description
infrastructure	Infrastructure
cameraap	Camera access point

**Value of channel**

Name	Description
auto	Auto
1	1ch
2	2ch
3	3ch
4	4ch
5	5ch
6	6ch
7	7ch
8	8ch
9	9ch
10	10ch
11	11ch
12	12ch
13	13ch
36	36ch

40	40ch
44	44ch
48	48ch
149	149ch
153	153ch
157	157ch
161	161ch
165	165ch

**Value of authentication**

Name	Description
open	Open system
sharedkey	Shared key
wpa2psk	WPA/WPA2-PSK
wpa2enterprize	WPA/WPA2-Enterprise
wpa2wpa3personal	WPA2/WPA3-Personal
wpa2wpa3personal	WPA/WPA2/WPA3-Personal
wpa2wpa3enterprize	WPA/WPA2/WPA3-Enterprise

**Value of encryption**

Name	Description
none	none
wep	WEP
tkipaes	TKIP/AES
aes	AES

**Value of keyindex**

Name	Description
1	key 1
2	key 2
3	key 3
4	key 4

**Value of ipv4\_ipaddressset**

Name	Description
auto	Auto assign

manual	Manual setting
--------	----------------

**Value of ipv6\_useipv6**

Name	Description
disable	Disable
enable	Enable

**Value of ipv6\_manual\_setting**

Name	Description
disable	Disable
enable	Enable

**JSON example**

```
{
    "nw01": {
        "lantype": "ether",
        "ipv4_ipaddressset": "manual",
        "ipv4_ipaddress": "192.168.1.2",
        "ipv4_subnetmask": "255.255.255.0",
        "ipv4_gateway": "0.0.0.0",
        "ipv6_useipv6": "disable",
        "ipv6_manual_setting": "",
        "ipv6_manual_address": "",
        "ipv6_prefixlength": "",
        "ipv6_gateway": "",
        "ssid": "",
        "method": "infrastructure",
        "channel": "",
        "authentication": "open",
        "encryption": "none",
        "keyindex": "",
        "password": ""
    },
    ...
}
```

## 4.5.17. Communication settings (NW)

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/networksetting/commsetting/nw\*\*

#### ■ GET

This gets the communication settings (NW) saved in the Canon camera.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/functions/networksetting/commsetting/nw01

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

Refer to "Object of commsetting" of "Get list of Communication settings (NW)" for the JSON data structures.

##### JSON example

```
{  
    "lantype": "ether",  
    "ipv4_ipaddressset": "manual",  
    "ipv4_ipaddress": "192.168.1.2",  
    "ipv4_subnetmask": "255.255.255.0",  
    "ipv4_gateway": "0.0.0.0",  
    "ipv6_useipv6": "disable",  
    "ipv6_manual_setting": "",  
    "ipv6_manual_address": "",  
    "ipv6_prefixlength": "",  
    "ipv6_gateway": "",  
    "ssid": "",  
    "method": "infrastructure",  
    "channel": "",  
    "authentication": "open",  
    "encryption": "none",  
    "keyindex": "",  
    "password": ""  
}
```

#### ■ PUT

This changes the communication setting (NW) infomation saved in the Canon camera.

Communication settings (NW) changed with this API are saved to the Canon camera after execution of this API, but are not reflected in the operation. It takes effect when CCAPI is restarted.

For "channel", you can enter all the values for "Value of channel", but the channels available depends on the camera or WFT orientation and the "method" used.

If you enter a channel that is not operational, you cannot connect to Wi-Fi. Check your Camera or WFT for details.

When "authentication" is set to "wpawpa2enterprise" or "wpawpa2wpa3enterprise", the "802.1 X authentication settings" set on the Canon camera body is used for Wi-Fi connection. If "802.1 X Authentication Settings" is not set, you will not be able to connect to Wi-Fi.

### Example URI

PUT http://192.168.1.2:8080/ccapi/ver110/functions/networksetting/commsetting/nw01

### Request

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

Refer to "Object of commsetting" of "Get list of Communication settings (NW)" for the JSON data structures.

#### JSON example

```
{  
    "lanstype": "ether",  
    "ipv4_ipaddressset": "manual",  
    "ipv4_ipaddress": "192.168.1.2",  
    "ipv4_subnetmask": "255.255.255.0",  
    "ipv4_gateway": "0.0.0.0",  
    "ipv6_useipv6": "disable",  
    "ipv6_manual_setting": "",  
    "ipv6_manual_address": "",  
    "ipv6_prefixlength": "",  
    "ipv6_gateway": "",  
    "ssid": "",  
    "method": "infrastructure",  
    "channel": "",  
    "authentication": "open",  
    "encryption": "none",  
    "keyindex": "",  
    "password": ""  
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Refer to “Object of commsetting” of “Get list of Communication settings (NW)” for the JSON data structures.

**JSON example**

```
{
    "lantype": "ether",
    "ipv4_ipaddressset": "manual",
    "ipv4_ipaddress": "192.168.1.2",
    "ipv4_subnetmask": "255.255.255.0",
    "ipv4_gateway": "0.0.0.0",
    "ipv6_useipv6": "disable",
    "ipv6_manual_setting": "",
    "ipv6_manual_address": "",
    "ipv6_prefixlength": "",
    "ipv6_gateway": "",
    "ssid": "",
    "method": "infrastructure",
    "channel": "",
    "authentication": "open",
    "encryption": "none",
    "keyindex": "",
    "password": ""
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	lantype is an illegal value - Nonexistent value - Non-string value

	<ul style="list-style-type: none"><li>- An unanticipated character string is input</li></ul>
	<p>ipv4_ipaddressset is an illegal value</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input</li></ul>
	<p>[When ipv4_ipaddressset is manual]</p> <p>ipv4_ipaddress or ipv4_subnetmask or ipv4_gateway is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- The character string is not IPv4 format.</li></ul>
	<p>ipv6_useipv6 is an illegal value</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input</li></ul>
	<p>[when ipv6_useipv6 is enable]</p> <p>ipv6_manual_setting is an illegal value</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input</li></ul>
	<p>[When ipv6_useipv6 is enable and ipv6_manual_setting is enable]</p> <p>ipv6_manual_address or ipv6_gateway is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- The character string is not IPv6 format.</li></ul>
	<p>ipv6_prefixlength is an illegal value</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- Value is not between 0 and 128</li></ul>
	<p>[Wi-Fi configuration parameters are ignored when lantype is ether]</p>

	<p>ssid is an illegal value</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- The character string is not 1 to 32 alphanumeric symbol characters</li></ul> <p>method is an illegal value</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input</li></ul> <p>[When method is cameraap]</p> <p>channel or encryption is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input</li></ul> <p>[When method is infrastructure]</p> <p>authentication is an illegal value</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input</li></ul> <p>[When method is infrastructure and authentication is open]</p> <p>encryption is an illegal value</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input</li></ul> <p>[When encryption is wep]</p> <p>[When method is infrastructure and authentication is sharedkey]</p> <p>keyindex is an illegal value</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input</li></ul> <p>password is an illegal value</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- The character string is not 13alphanumeric</li></ul>
--	--

	<p>symbol characters or 64 hexadecimal characters</p> <p>[When method is infrastructure and authentication is wpawpa2psk] password is an illegal value</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- The character string is not 8 to 63 alphanumeric symbol characters or 64 hexadecimal characters.</li> </ul> <p>[When method is infrastructure and authentication is wpawpa2wpa3personal] password is an illegal value</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- The character string is not 8 to 63 alphanumeric symbol characters or 64 hexadecimal characters.</li> </ul> <p>[When encryption is aes] password is an illegal value</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- The character string is not 8 alphanumeric symbol characters.</li> </ul>
--	--

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This deletes the communication settings (NW) saved in the Canon camera.

When this API is executed, the connection settings (SET) using the deleted communication settings (NW) is also deleted.

Connection settings (SET) and communication settings (NW) deleted with this API are deleted to the Canon camera after execution of this API, but are not reflected in the operation. It takes effect when CCAPI is restarted.

**Example URI**

DELETE <http://192.168.1.2:8080/ccapi/ver110/functions/networksetting/commsetting/nw01>

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Refer to “Object of commsetting” of “Get list of Communication settings (NW)” for the JSON data structures.

**JSON example**

```
{
  "lanstype": "unspecified",
  "ipv4_ipaddressset": "",
  "ipv4_ipaddress": "",
  "ipv4_subnetmask": "",
  "ipv4_gateway": "",
  "ipv6_useipv6": "disable",
  "ipv6_manual_setting": ""}
```

```

    "ipv6_manual_address": "",  

    "ipv6_prefixlength": "",  

    "ipv6_gateway": "",  

    "ssid": "",  

    "method": "",  

    "channel": "",  

    "authentication": "",  

    "encryption": "",  

    "key index": "",  

    "password": ""
}

```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**4.5.18. Get list of Function settings (MODE)****URI**

[http://\[IPAddress\]:\[Port\]/ccapi/\[Version\]/functions/networksetting/functionsetting](http://[IPAddress]:[Port]/ccapi/[Version]/functions/networksetting/functionsetting)

**■ GET**

This gets the list of function setting (NW) information saved in the Canon camera.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver110/functions/networksetting/functionsetting

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
mode01	Object of functionsetting	Function settings (MODE1)
mode02	Object of functionsetting	Function settings (MODE2)
...	...	...
mode25	Object of functionsetting	Function settings (MODE25)

**Object of functionsetting**

JSON Field	Data Type	Description
commfunction	string	LAN type

**Value of commfunction**

Name	Description
unspecified	Unspecified
ccapi	CCAPI
eos_utility	EOS Utility
browserremote	Browser Remote
ftp_trans	FTP transfer
smartphone	Smartphone

**JSON example**

```
{
    "mode01": {
        "commfunction": "ccapi"
    },
    "mode02": {
        "commfunction": "browserremote"
    },
    ...
}
```

## 4.5.19. Function settings (MODE)

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/networksetting/functionsetting/mode\*\*

#### ■ GET

This gets the function settings (MODE) saved in the Canon camera.

This enables to get only the communication function on the function setting (MODE) list.

This cannot get information other than communication function. Check the display on the Canon camera.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/functions/networksetting/functionsetting/mode01

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

Refer to "Object of functionsetting" of "Get list of Function settings (MODE)" for the JSON data structures.

##### JSON example

```
{  
    "commfunction": "ccapi"  
}
```

#### ■ PUT

This changes the function setting (MODE) information saved in the Canon camera.

Function settings (MODE) changed with this API are saved to the Canon camera after execution of this API, but are not reflected in the operation. It takes effect when CCAPI is restarted.

This enables to change only the communication function on the function setting (MODE) list.

The only communication function that can be changed is CCAPI.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/functions/networksetting/functionsetting/mode01

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Refer to “Object of functionsetting” of “Get list of Function settings (MODE)” for the JSON data structures.

**JSON example**

```
{
  "commfunction": "ccapi"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Refer to “Object of functionsetting” of “Get list of Function settings (MODE)” for the JSON data structures.

**JSON example**

```
{
  "commfunction": "ccapi"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	commfunction is an illegal value.

	<ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input</li> </ul>
--	---

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This deletes the function settings (MODE) saved in the Canon camera.

When this API is executed, the connection settings (SET) using the deleted function settings (MODE) is also deleted.

Connection settings (SET) and function settings (MODE) deleted with this API are deleted to the Canon camera after execution of this API, but are not reflected in the operation. It takes effect when CCAPI is restarted.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver110/functions/networksetting/functionsetting/mode01

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Refer to "Object of functionsetting" of "Get list of Function settings (MODE)" for the JSON data structures.

**JSON example**

```
{  
    "commfunction": "unspecified"  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.5.20. Wi-Fi disconnect

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/wificonnection

##### ■ POST

This executes disconnection of the Wi-Fi connection.

When this API is executed, the Wi-Fi connection is disconnected and CCAPI is exited. To use CCAPI again, operate the camera menu and perform the Wi-Fi connection operation again.

In case of a Canon camera that supports wired LAN, this API is not supported. Check the Canon camera used.

##### Example URI

POST http://192.168.1.2:8080/ccapi/ver100/functions/wificonnection

##### Request

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
action	string	Wi-Fi disconnect operation

###### Value of action

Name	Description
disconnect	Wi-Fi disconnection

###### JSON example

```
{  
    "action": "disconnect"  
}
```

##### Response 202

###### Headers

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

{}
----

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>action is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input.</li> </ul>

**JSON example**

{       "message": "Invalid parameter"     }
--

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Taken in preparation	<p>Service preparation is in progress.</p> <ul style="list-style-type: none"> <li>- When the API first called in the connection</li> </ul>

	standby state was this API (The connection is not yet complete, so the process cannot be accepted.)
--	---

**JSON example**

{ "message": "Taken in preparation" }
---

## 4.5.21. Get connection settings

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/functions/wifisetting`

#### ■ Ver.1.0.0

#### ■ GET

This gets the Wi-Fi connection setting information stored in the Canon camera.

In case of a Canon camera that supports wired LAN, this API is not supported. Check the Canon camera used.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/functions/wifisetting`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
wifisetting_set1	Object of wifisetting	Connection settings 1
wifisetting_set2	Object of wifisetting	Connection settings 2
wifisetting_set3	Object of wifisetting	Connection settings 3

##### Object of wifisetting

JSON Field	Data Type	Description
ssid	string	SSID
method	string	Connection method
channel	string	Channel
authentication	string	Authentication system
encryption	string	Encryption system
keyindex	string	Key index
password	string	Password
ipaddressset	string	IP address setting
ipaddress	string	IP address

subnetmask	string	Subnet mask
gateway	string	Gateway

**Value of method**

Name	Description
infrastructure	Infrastructure
cameraap	Camera access point

**Value of channel**

Name	Description
auto	Auto
1	1ch
2	2ch
3	3ch
4	4ch
5	5ch
6	6ch
7	7ch
8	8ch
9	9ch
10	10ch
11	11ch

**Value of authentication**

Name	Description
open	Open
sharedkey	Shared key
wpa2psk	WPA/WPA2-PSK

**Value of encryption**

Name	Description
none	None
wep	WEP
tkipaes	TKIP/AES
aes	AES

**Value of keyindex**

Name	Description
1	Key 1
2	Key 2
3	Key 3
4	Key 4

**Value of ipaddressset**

Name	Description
auto	Get automatically
manual	Get manually

**JSON example**

```
{
    "wifisetting_set1": {
        "ssid": "EOS-469_Canon0A",
        "method": "cameraap",
        "channel": "auto",
        "authentication": "",
        "encryption": "aes",
        "keyindex": "",
        "password": "30053760",
        "ipaddressset": "auto",
        "ipaddress": "",
        "subnetmask": "",
        "gateway": ""
    },
    "wifisetting_set2": {
        "ssid": "",
        "method": "",
        "channel": "",
        "authentication": "",
        "encryption": "",
        "keyindex": "",
        "password": "",
        "ipaddressset": "",
        "ipaddress": "",
        "subnetmask": "",
        "gateway": ""
    },
    "wifisetting_set3": {
        "ssid": "",
        "method": "",
        "channel": "",
        "authentication": "",
        "encryption": "",
        "keyindex": "",
        "password": ""
    }
}
```

```
    "ipaddressset": "",  
    "ipaddress": "",  
    "subnetmask": "",  
    "gateway": ""  
}  
}
```

■ **Ver.1.1.0**

■ **GET**

This gets the Wi-Fi connection setting information saved in the Canon camera.

In case of a Canon camera that supports wired LAN, this API is not supported. Check the Canon camera used.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver110/functions/wifisetting

**Response 200**

**Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
wifisetting_set1	Object of wifisetting	Connection settings 1
wifisetting_set2	Object of wifisetting	Connection settings 2
wifisetting_set3	Object of wifisetting	Connection settings 3

**Object of wifisetting**

JSON Field	Data Type	Description
ssid	string	SSID
method	string	Connection method
channel	string	Channel
authentication	string	Authentication system
encryption	string	Encryption system
keyindex	string	Key index
password	string	Password
ipv4_ipaddressset	string	TCP/IPV4 IP address setting
ipv4_ipaddress	string	TCP/IPV4 IP address
ipv4_subnetmask	string	TCP/IPV4 Subnet mask
ipv4_gateway	string	TCP/IPV4 Gateway
ipv6_useipv6	string	TCP/IPV6 TCP/IPV6 setting
ipv6_manual_setting	string	TCP/IPV6 Manual setting

ipv6_manual_address	string	TCP/IPv6	Manual address
ipv6_prefixlength	string	TCP/IPv6	Prefix length
ipv6_gateway	string	TCP/IPv6	Gateway

**Value of method**

Name	Description
infrastructure	Infrastructure
cameraap	Camera access point

**Value of channel**

Name	Description
auto	Auto
1	1ch
2	2ch
3	3ch
4	4ch
5	5ch
6	6ch
7	7ch
8	8ch
9	9ch
10	10ch
11	11ch

**Value of authentication**

Name	Description
open	Open
sharedkey	Shared key
wpa2psk	WPA/WPA2-PSK
wpa2wpa3personal	WPA/WPA2/WPA3-Personal
wpa2wpa3personal	WPA2/WPA3-Personal
wpa2wpa3enterprize	WPA/WPA2/WPA3-Enterprise

**Value of encryption**

Name	Description
none	None

wep	WEP
tkipaes	TKIP/AES
aes	AES

**Value of keyindex**

Name	Description
1	Key 1
2	Key 2
3	Key 3
4	Key 4

**Value of ipv4\_ipaddressset**

Name	Description
auto	Get automatically
manual	Get manually

**Value of ipv6\_useipv6**

Name	Description
disable	Disable
enable	Enable

**Value of ipv6\_manual\_setting**

Name	Description
disable	Disable
enable	Enable

**JSON example**

```
{
    "wifisetting_set1": {
        "ssid": "EOS-469_Canon0A",
        "method": "cameraap",
        "channel": "auto",
        "authentication": "",
        "encryption": "aes",
        "keyindex": "",
        "password": "30053760",
        "ipv4_ipaddressset": "auto",
        "ipv4_ipaddress": "",
        "ipv4_subnetmask": "",
        "ipv4_gateway": "",
        "ipv6_useipv6": "disable",
        "ipv6_manual_setting": ""
    }
}
```

```
"ipv6_manual_address": "",  
"ipv6_prefixlength": "",  
"ipv6_gateway": ""  
},  
"wifisetting_set2": {  
    "ssid": "",  
    "method": "",  
    "channel": "",  
    "authentication": "",  
    "encryption": "",  
    "keyindex": "",  
    "password": "",  
    "ipv4_ipaddressset": "",  
    "ipv4_ipaddress": "",  
    "ipv4_subnetmask": "",  
    "ipv4_gateway": "",  
    "ipv6_useipv6": "",  
    "ipv6_manual_setting": "",  
    "ipv6_manual_address": "",  
    "ipv6_prefixlength": "",  
    "ipv6_gateway": ""  
},  
"wifisetting_set3": {  
    "ssid": "",  
    "method": "",  
    "channel": "",  
    "authentication": "",  
    "encryption": "",  
    "keyindex": "",  
    "password": "",  
    "ipv4_ipaddressset": "",  
    "ipv4_ipaddress": "",  
    "ipv4_subnetmask": "",  
    "ipv4_gateway": "",  
    "ipv6_useipv6": "",  
    "ipv6_manual_setting": "",  
    "ipv6_manual_address": "",  
    "ipv6_prefixlength": "",  
    "ipv6_gateway": ""  
}  
}
```

## 4.5.22. Wi-Fi connection settings

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/functions/wifisetting/[setID]`

### URI Parameters

Name	Status	Data Type	Description
setID	required	string	Set number

### Value of setID

Name	Description
set1	set1
set2	set2
set3	set3

### ■ Ver.1.0.0

### ■ GET

This gets the setID Wi-Fi connection settings.

### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/functions/wifisetting/set1`

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

Refer to “Object of wifisetting” of “Get connection settings” for the JSON data structure.

#### JSON example

```
{
    "ssid": "EOS-469_Canon0A",
    "method": "cameraap",
    "channel": "auto",
    "authentication": "",
    "encryption": "aes",
    "key index": "",
    "password": "30053760",
    "ipaddressset": "auto",
}
```

```
"ipaddress": "",  
"subnetmask": "",  
"gateway": ""  
}
```

## ■ PUT

This changes the setID Wi-Fi connection settings.

### Example URI

PUT http://192.168.1.2:8080/ccapi/ver100/functions/wifisetting/set1

### Request

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

Refer to “Object of wifisetting” of “Get connection settings” for the JSON data structure.

### JSON example

```
{  
    "ssid": "EOS-469_Canon0A",  
    "method": "cameraaap",  
    "channel": "auto",  
    "authentication": "",  
    "encryption": "aes",  
    "keyindex": "",  
    "password": "30053760",  
    "ipaddresseset": "auto",  
    "ipaddress": "",  
    "subnetmask": "",  
    "gateway": ""  
}
```

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

Refer to “Object of wifisetting” of “Get connection settings” for the JSON data structure.

**JSON example**

```
{
    "ssid": "EOS-469_Canon0A",
    "method": "cameraap",
    "channel": "auto",
    "authentication": "",
    "encryption": "aes",
    "key index": "",
    "password": "30053760",
    "ipaddressset": "auto",
    "ipaddress": "",
    "subnetmask": "",
    "gateway": ""
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>ssid is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- Same value as an already set SSID</li> <li>- The character string is not 1 to 32 alphanumeric symbol characters</li> </ul> <p>method is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input.</li> </ul> <p>ipaddressset is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input.</li> </ul> <p>[When method is cameraap]</p> <p>channel or encryption is an illegal value.</p>

	<ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input.</li></ul> <p>[When method is infrastructure] authentication is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input.</li></ul> <p>[When method is infrastructure and authentication is open] encryption is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input.</li></ul> <p>[When encryption is wep] [When method is infrastructure and authentication is sharedkey] keyindex is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input.</li><li>password is an illegal value.</li><li>- Nonexistent value</li><li>- Non-string value</li><li>- The character string is not 13 alphanumeric symbol characters or 64 hexadecimal characters.</li></ul> <p>[When method is infrastructure and authentication is wpawpa2psk] password is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- The character string is not 8 to 63 alphanumeric symbol characters or 64 hexadecimal characters.</li></ul> <p>[When encryption is aes] password is an illegal value.</p>
--	---

	<ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- The character string is not 8 alphanumeric symbol characters.</li> </ul> <p>[When ipaddressset is manual] ipaddress, subnetmask, or gateway is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- The character string is not IPv4 format.</li> </ul>
--	--

**JSON example**

{       "message": "Invalid parameter"     }
--

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

{       "message": "Device busy"     }
--

## ■ DELETE

This deletes the setID Wi-Fi connection settings.

### Example URI

DELETE http://192.168.1.2:8080/ccapi/ver100/functions/wifisetting/set1

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

Refer to “Object of wifisetting” of “Get connection settings” for the JSON data structure.

#### JSON example

```
{
    "ssid": "",
    "method": "",
    "channel": "",
    "authentication": "",
    "encryption": "",
    "key index": "",
    "password": "",
    "ipaddressset": "",
    "ipaddress": "",
    "subnetmask": "",
    "gateway": ""
}
```

### Response 503

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
message	string	Message

#### Message description

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the

	function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

**■ Ver.1.1.0****■ GET**

This gets the setID Wi-Fi connection settings

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver110/functions/wifisetting/set1

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Refer to "Object of wifisetting" of "Get connection settings" for the JSON data structure.

**JSON example**

```
{  
    "ssid": "EOS-469_Canon0A",  
    "method": "cameraap",  
    "channel": "auto",  
    "authentication": "",  
    "encryption": "aes",  
    "keyindex": "",  
    "password": "30053760",  
    "ipv4_ipaddressset": "auto",  
    "ipv4_ipaddress": "",  
    "ipv4_subnetmask": "",  
    "ipv4_gateway": "",  
    "ipv6_useipv6": "disable",  
    "ipv6_manual_setting": "",  
    "ipv6_manual_address": "",  
    "ipv6_prefixlength": "",  
    "ipv6_gateway": ""  
}
```

**■ PUT**

This changes the setID Wi-Fi connection settings.

When "authentication" is set to "wpawpa2wpa3enterprize", the "802.1 X authentication settings" set on the Canon camera body is used for Wi-Fi connection. If "802.1 X Authentication Settings" is not set, you will not be able to connect to Wi-Fi.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver110/functions/wifisetting/set1

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Refer to “Object of wifisetting” of “Get connection settings” for the JSON data structure.

**JSON example**

```
{  
    "ssid": "EOS-469_Canon0A",  
    "method": "cameraap",  
    "channel": "auto",  
    "authentication": "",  
    "encryption": "aes",  
    "keyindex": "",  
    "password": "30053760",  
    "ipv4_ipaddressset": "auto",  
    "ipv4_ipaddress": "",  
    "ipv4_subnetmask": "",  
    "ipv4_gateway": "",  
    "ipv6_useipv6": "disable",  
    "ipv6_manual_setting": "",  
    "ipv6_manual_address": "",  
    "ipv6_prefixlength": "",  
    "ipv6_gateway": ""  
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Refer to “Object of wifisetting” of “Get connection settings” for the JSON data structure.

**JSON example**

```
{  
    "ssid": "EOS-469_Canon0A",  
    "method": "cameraap",  
    "channel": "auto",  
    "authentication": "",  
    "encryption": "aes",  
    "keyindex": "",  
    "password": "30053760",  
    "ipv4_ipaddressset": "auto",  
    "ipv4_ipaddress": "",  
    "ipv4_subnetmask": "",  
    "ipv4_gateway": "",  
    "ipv6_useipv6": "disable",  
    "ipv6_manual_setting": "",  
    "ipv6_manual_address": "",  
    "ipv6_prefixlength": "",  
    "ipv6_gateway": ""  
}
```

```

    "ipv4_ipaddress": "",  

    "ipv4_subnetmask": "",  

    "ipv4_gateway": "",  

    "ipv6_useipv6": "disable",  

    "ipv6_manual_setting": "",  

    "ipv6_manual_address": "",  

    "ipv6_prefixlength": "",  

    "ipv6_gateway": ""  

}

```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>ssid is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- Same value as an already set SSID</li> <li>- The character string is not 1 to 32 alphanumeric symbol characters</li> </ul> <p>method is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input</li> </ul> <p>ipv4_ipaddressset is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input</li> </ul> <p>ipv6_useipv6 is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input</li> </ul>

	<p>【When method is infrastructure】</p> <p>authentication is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input</li></ul> <p>【When method is infrastructure and authentication is open】</p> <p>encryption is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input</li></ul> <p>【When method is infrastructure and authentication is sharedkey or open】</p> <p>【When encryption is wep】</p> <p>keyindex is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input</li></ul> <p>password is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- The character string is not 13 alphanumeric symbol characters or 64 hexadecimal characters.</li></ul> <p>【When method is infrastructure and authentication is wpawpa2psk】</p> <p>password is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- The character string is not 8 to 63 alphanumeric symbol characters or 64 hexadecimal characters.</li></ul> <p>【 When method is infrastructure and authentication is wpawpa2wpa3personal】</p>
--	---

	<p>password is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- The character string is not 1 to 255 alphanumeric symbol characters or 64 hexadecimal characters.</li></ul> <p>【When method is cameraap】</p> <p>channel or encryption is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input</li></ul> <p>【When method is cameraap】 and 【encryption is aes】</p> <p>password is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- The character string is not 8 alphanumeric symbol characters.</li></ul> <p>【When ipv4_ipaddressset is manual】</p> <p>ipv4_ipaddress , ipv4_subnetmask or ipv4_gateway is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- The character string is not IPv4 format.</li></ul> <p>【When ipv6_useipv6 is enable】</p> <p>ipv6_manual_setting is an illegal value.</p> <ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- An unanticipated character string is input</li></ul> <p>【ipv6_useipv6 is enable】 and 【ipv6_manual_setting is enable】</p> <p>ipv6_manual_address or ipv6_gateway is an illegal value.</p>
--	---

	<ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- The character string is not IPv6 format.</li> </ul> <p>ipv6_prefixlength is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- Value is not between 0 and 128</li> </ul>
--	---

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This deletes the setID Wi-Fi connection settings.

**Example URI**

```
DELETE http://192.168.1.2:8080/ccapi/ver110/functions/wifisetting/set1
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Refer to "Object of wifisetting" of "Get connection settings" for the JSON data structure.

**JSON example**

```
{
    "ssid": "",
    "method": "",
    "channel": "",
    "authentication": "",
    "encryption": "",
    "key index": "",
    "password": "",
    "ipv4_ipaddressset": "",
    "ipv4_ipaddress": "",
    "ipv4_subnetmask": "",
    "ipv4_gateway": "",
    "ipv6_useipv6": "",
    "ipv6_manual_setting": "",
    "ipv6_manual_address": "",
    "ipv6_prefixlength": "",
    "ipv6_gateway": ""
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.

During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

### 4.5.23. Get root certificate

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/ssl/cacert

#### ■ GET

This gets the root certificate for HTTPS.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/functions/ssl/cacert

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/x-x509-user-cert

##### Body

Root certificate file data

#### 4.5.24. Common name

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/ssl/servercert/commonname

##### ■ GET

This gets the common name of the HTTPS server certificate configured on your Canon camera.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/functions/ssl/servercert/commonname

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
Commonname	string	Common name

###### JSON example

```
{  
    "commonname": "xxx"  
}
```

##### ■ PUT

This changes the common name of the HTTPS server certificate on the Canon camera.

The Canon camera cannot be operated while updating is in progress.

##### Example URI

PUT http://192.168.1.2:8080/ccapi/ver100/functions/ssl/servercert/commonname

###### Request

###### Headers

Header Field	Value
Content-Type	application/json

**Body**

Field	Type	Description
Commonname	string	Common name - ASCII character codes only - Maximum 63 characters

**JSON example**

```
{
  "commonname": "yyy"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
Commonname	string	Common name

**JSON example**

```
{
  "commonname": "yyy"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
Message	string	Message

**Message description**

Message	Description
Invalid parameter	commonname is an illegal value. - Nonexistent value - Non-string value - The number of input characters exceeds the

	maximum value. - Illegal character code
--	--

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
Message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This deletes the common name of HTTPS server certificate in the Canon camera.

When deletion is complete, the value becomes empty.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/functions/registeredname/commonname

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
Commonname	string	Common name

**JSON example**

```
{  
    "commonname": ""  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
Message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.5.25. CORS setting

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/cors/corssetting

#### ■ GET

This gets the present value and ability values of the the CORS settings saved in the Canon camera.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/functions/cors/corssetting

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
enable	Enabled
disable	Disabled

##### JSON example

```
{  
    "value": "enable",  
    "ability": ["enable", "disable"]  
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the CORS settings on the Canon camera.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/functions/cors/corssetting

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "disable"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "disable"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.5.26. CORS origin setting

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/cors/origin

#### ■ GET

This gets the present value and ability values of the the CORS origin settings saved in the Canon camera.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/functions/cors/origin

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
Origin	string	Origin

##### JSON example

```
{  
    "origin": "*"  
}
```

#### ■ PUT

This changes the CORS origin settings on the Canon camera.

The Canon camera cannot be operated while updating is in progress.

#### Example URI

PUT http://192.168.1.2:8080/ccapi/ver100/functions/cors/origin

##### Request

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

Field	Type	Description
Origin	string	Origin - ASCII character codes only - Maximum 1023 characters

**JSON example**

```
{
  "origin": "http://sample.com"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
Origin	String	Origin

**JSON example**

```
{
  "origin": "http://sample.com"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
Message	string	Message

**Message description**

Message	Description
Invalid parameter	Origin is an illegal value. - Nonexistent value - Non-string value - The number of input characters exceeds the

	maximum value - Illegal character code
--	---

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
Message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This deletes the common name of CORS origin settings in the Canon camera.

When deletion is complete, the value becomes empty.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/functions/cors/origin

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
Origin	string	Origin

**JSON example**

```
{
    "origin": ""
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
Message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

### 4.5.27. Still Image / movie Separate

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/recordfunctions/separate

#### ■ GET

This gets the present value and ability values of the Still Image / movie Separate.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/functions/recordfunctions/separate

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
enable	Enabled
disable	Disabled

##### JSON example

```
{  
    "value": "enable",  
    "ability": ["enable", "disable"]  
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the Still Image / movie Separate.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/functions/recordfunctions/separate

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "disable"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "disable"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable. - The live view setting "liveviewsize" is set to something other than OFF.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.5.28. Still Image Rec options

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/functions/recordfunctions/stillimage`

#### ■ GET

This gets the present value and ability values of the Still Image Record options.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/functions/recordfunctions/stillimage`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
standard	Standard
auto_switch_card	Auto switch card
rec_separately	Rec.separately
rec_to_multiple	Rec. to multiple

##### JSON example

```
{
  "value": "standard",
  "ability": ["standard", "auto_switch_card", "rec_separately", "rec_to_multiple"]
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the Still Image Record options.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/functions/recordfunctions/stillimage

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "standard"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "standard"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable. - The live view setting "liveviewsize" is set to something other than OFF.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still/Movie Separation Enabled

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.5.29. Movie Rec options

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/functions/recordfunctions/movie`

#### ■ GET

This gets the present value and ability values of the Movie Record options.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/functions/recordfunctions/movie`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
standard	Standard
auto_switch_card	Auto switch card
rec_separately	card1:RAW, card2:MP4
rec_to_multiple	Rec. to multiple

##### JSON example

```
{
  "value": "standard",
  "ability": ["standard", "auto_switch_card", "rec_separately", "rec_to_multiple"]
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the Movie Record options.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/functions/recordfunctions/movie

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "standard"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "standard"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable. - The live view setting "liveviewsize" is set to something other than OFF.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still/Movie Separation Enabled

**JSON example**

```
{  
    "message": "Device busy"  
}
```

### 4.5.30. Still Image Record/play

#### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/functions/cardselection/stillimage`

#### ■ GET

This gets the present value and ability values of the Still Image Record/play.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/functions/cardselection/stillimage`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
none	Card none
card1	Card 1
card2	Card 2

##### JSON example

```
{
  "value": "card1",
  "ability": ["card1", "card2"]
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the Still Image Record/play.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/functions/cardselection/stillimage

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "card1"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "card1"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable. - The live view setting "liveviewsize" is set to something other than OFF.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still/Movie Separation Enabled

**JSON example**

```
{  
    "message": "Device busy"  
}
```

### 4.5.31. Movie Record/play

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/functions/cardselection/movie

#### ■ GET

This gets the present value and ability values of the Movie Record/play.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/functions/cardselection/movie

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
none	Card none
card1	Card 1
card2	Card 2

##### JSON example

```
{  
    "value": "card1",  
    "ability": ["card1", "card2"]  
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the Movie Record/play.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/functions/cardselection/movie

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "card1"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "card1"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable. - The live view setting "liveviewsize" is set to something other than OFF.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still/Movie Separation Enabled

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.6. Camera Customization Functions

### 4.6.1. Exposure level increments (aperture value)

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/customfunctions/exposureincrements/av

#### ■ GET

This gets the aperture value level increment information set in the Canon camera.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/customfunctions/exposureincrements/av

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Level increment

##### JSON example

{ "value": "1/3" }
--------------------------

## 4.6.2. Exposure level increments (shutter speed)

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/customfunctions/exposureincrements/tv

#### ■ GET

This gets the shutter speed level increment information set in the Canon camera.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/customfunctions/exposureincrements/tv

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Level increment

##### JSON example

```
{  
    "value": "1/3"  
}
```

### 4.6.3. Exposure level increments (exposure compensation)

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/customfunctions/exposureincrements/exposure

#### ■ GET

This gets the exposure compensation level increment information set in the Canon camera.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/customfunctions/exposureincrements/exposure

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Level increment

##### JSON example

```
{  
    "value": "1/3"  
}
```

#### 4.6.4. Exposure level increments (flash exposure compensation)

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/customfunctions/exposureincrements/flashexposure

##### ■ GET

This gets the flash exposure compensation level increment information set in the Canon camera.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/customfunctions/exposureincrements/flashexposure

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	string	Level increment

###### JSON example

```
{  
    "value": "1/3"  
}
```

#### 4.6.5. ISO speed level increments

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/customfunctions/isoincrements

##### ■ GET

This gets the ISO speed level increment information set in the Canon camera.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/customfunctions/isoincrements

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	string	ISO speed level increments

###### JSON example

```
{  
    "value": "1/3"  
}
```

## 4.7. Image Operations

### 4.7.1. Get list of storage URLs

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/contents

#### ■ Ver.1.0.0

#### ■ GET

This gets the list of storage URLs.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/contents

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
url	array [string]	Storage URLs

##### JSON example

```
{  
    "url": [  
        "http://192.168.1.2:8080/ccapi/ver100/contents/sd"  
    ]  
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
    "message": "Device busy"
}
```

**■ Ver.1.1.0****■ GET**

This gets a list of the storage paths.

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver110/contents

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
path	array [string]	Storage PATH

**JSON example**

```
{
    "path": [
        "/ccapi/ver110/contents/card1", "/ccapi/ver110/contents/card2"
    ]
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
    "message": "Device busy"
}
```

**■ Ver.1.2.0****■ GET**

This gets a list of the storage paths.

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver120/contents

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
path	array [string]	Storage PATH

**JSON example**

```
{
    "path": [
        "/ccapi/ver120/contents/card1", "/ccapi/ver120/contents/card2"
    ]
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ Ver.1.3.0****■ GET**

This gets a list of the storage paths.

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

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**Example URI**

GET http://192.168.1.2:8080/ccapi/ver130/contents

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
path	array [string]	Storage PATH

**JSON example**

```
{  
    "path": [  
        "/ccapi/ver130/contents/card1", "/ccapi/ver130/contents/card2"  
    ]  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.7.2. Get list of directory URLs

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/contents/[storage]`

### URI Parameters

Name	Status	Data Type	Description
storage	required	string	Storage name

### ■ Ver.1.0.0

### ■ GET

This gets the URLs of the directories directly below the storage (DCIM).

### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/contents/sd`

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
url	array [string]	Directory URLs

#### JSON example

```
{
  "url": [
    "http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON",
    "http://192.168.1.2:8080/ccapi/ver100/contents/sd/101CANON"
  ]
}
```

### Response 404

#### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
  "message": "URL not found"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ Ver.1.1.0****■ GET**

This gets the paths of the directories directly below the storage (DCIM).

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver110/contents/card1

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
path	array [string]	Directory PATH

**JSON example**

```
{
  "path": [
    "/ccapi/ver110/contents/card1/100EOS1D",
    "/ccapi/ver110/contents/card1/101EOS1D"
  ]
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
  "message": "URL not found"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ Ver.1.2.0****■ GET**

This gets the paths of the directories directly below the storage (DCIM).

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver120/contents/card1

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
path	array [string]	Directory PATH

**JSON example**

```
{
```

```

    "path": [
        "/ccapi/ver120/contents/card1/100EOS1D",
        "/ccapi/ver120/contents/card1/101EOS1D"
    ]
}

```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
    "message": "URL not found"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ Ver.1.3.0****■ GET**

This gets the paths of the directories directly below the storage (DCIM).

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver130/contents/card1

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
path	array [string]	Directory PATH

**JSON example**

```
{
  "path": [
    "/ccapi/ver130/contents/card1/100EOS1D",
    "/ccapi/ver130/contents/card1/101EOS1D"
  ]
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{  
    "message": "URL not found"  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

### 4.7.3. Get list of contents URLs

#### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/contents/[storage]/[directory]?[type, kind, order, page]`

#### ■ Ver.1.0.0

##### URI Parameters

Name	Status	Data Type	Description
storage	required	string	Storage name
directory	required	string	Directory name
type	optional	string	Target file format
kind	optional	string	Response data kind
order	optional	string	Contents acquisition order * Can be designated only when kind = chunked
page	optional	integer	Display page of contents to be acquired ex. When page = 2, the 101st to 200th contents will be displayed. * Can be designated only when kind = list (Default when page is not designated = 1)

##### Value of type

Name	Description
all	All (Default when type is not designated)
jpeg	JPEG
cr2	CR2
cr3	CR3
wav	WAV
mp4	MP4
mov	MOV

##### Value of kind

Name	Description
list	Gets the list of contents. (Default when kind is not designated)
chunked	Gets the list of contents divided in chunk format.

number	Gets the number of contents and number of pages.
--------	--

**Value of order**

Name	Description
asc	Ascending order (Default when order is not designated)
desc	Descending order

**■ GET**

This gets the URLs of the contents within the directory.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON?type=jpeg

**Response 200**

When kind = list

**Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
url	array [string]	Resource URLs (Max. 100 items)

**JSON example**

```
{
  "url": [
    "http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON/IMG_0001.JPG",
    "http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON/MVI_0002.MP4",
  ]
}
```

**Response 200**

When kind = chunked

**Headers**

Header Field	Value
Content-Type	application/octet-stream
transfer-encoding	chunked

**Body**

The following JSON objects is sent for each chunk.

- When the URLs were sent properly

JSON Field	Data Type	Description
url	array [string]	Resource URLs - Max. 100 items per chunk

- When an error occurred during transmission

JSON Field	Data Type	Description
message	string	Error message

**Chunked example**

- When an error did not occur during transmission

```
<Chunk data size (Hex)>
{
  "url": [
    "http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON/IMG_0001.JPG",
    "http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON/MVI_0002.MP4",
    ...
    "http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON/MVI_0100.MP4"
  ]
}
<Chunk data size (Hex)>
{
  "url": [
    "http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON/IMG_0101.JPG",
    "http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON/MVI_0102.MP4",
    ...
    "http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON/MVI_0200.MP4"
  ]
}
```

- When an error occurred during transmission

```
<Chunk data size (Hex)>
{
  "url": [
    "http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON/IMG_0001.JPG",
    "http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON/MVI_0002.MP4",
    ...
    "http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON/MVI_0100.MP4"
  ]
}
<Chunk data size (Hex)>
{
  "message": "During shooting or recording"
}
```

**Response 200**

When kind = number

**Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
contentsnumber	integer	Number of contents
pagenumber	integer	Number of pages

**JSON example**

```
{
  "contentsnumber": 150,
  "pagenumber": 2
}
```

**Response 400**

Kind= type の場合

**Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	メッセージ

**Message description**

Message	Description
Illegal query parameter	URL クエリパラメータが不正

**JSON example**

```
{
  "message": "Illegal query parameter"
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{  
    "message": "URL not found"  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## ■ Ver.1.1.0

### URI Parameters

Name	Status	Data Type	Description
storage	required	string	Storage name
directory	required	string	Directory name
type	optional	string	Target file format
kind	optional	string	Response data kind
order	optional	string	Contents acquisition order * Can be designated only when kind = chunked
page	optional	integer	Display page of contents to be acquired ex. When page = 2, the 101st to 200th contents will be displayed. * Can be designated only when kind = list (Default when page is not designated = 1)

### Value of type

Name	Description
all	All (Default when type is not designated)
jpeg	JPEG
hif	HEIF
cr2	CR2
cr3	CR3
wav	WAV
mp4	MP4
mov	MOV
crm	CRM

### Value of kind

Name	Description
list	Gets the list of contents. (Default when kind is not designated)
chunked	Gets the list of contents divided in chunk format.
number	Gets the number of contents and number of pages.

### Value of order

Name	Description

asc	Ascending order (Default when order is not designated)
desc	Descending order

## ■ GET

This gets the paths of the contents within the directory.

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/contents/card1/100CANON?type=hif

### Response 200

When kind = list

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
path	array [string]	Resource PATH (Max. 100 items)

#### JSON example

```
{
  "path": [
    "/ccapi/ver110/contents/card1/100CANON/IMG_0001.JPG",
    "/ccapi/ver110/contents/card1/100CANON/MVI_0002.MP4",
  ]
}
```

### Response 200

When kind = chunked

#### Headers

Header Field	Value
Content-Type	application/octet-stream
transfer-encoding	chunked

#### Body

The following JSON objects is sent for each chunk.

- When the URLs were sent properly

JSON Field	Data Type	Description
path	array [string]	Resource PATH - Max. 100 items per chunk

- When an error occurred during transmission

JSON Field	Data Type	Description
message	string	Error message

#### Chunked example

- When an error did not occur during transmission

```
<Chunk data size (Hex)>
{
  "path": [
    "/ccapi/ver110/contents/card1/100CANON/IMG_0001.JPG",
    "/ccapi/ver110/contents/card1/100CANON/MVI_0002.MP4",
    ...
    "/ccapi/ver110/contents/card1/100CANON/MVI_0100.MP4"
  ]
}
<Chunk data size (Hex)>
{
  "path": [
    "/ccapi/ver110/contents/card1/100CANON/IMG_0101.JPG",
    "/ccapi/ver110/contents/card1/100CANON/MVI_0102.MP4",
    ...
    "/ccapi/ver110/contents/card1/100CANON/MVI_0200.MP4"
  ]
}
0
```

- When an error occurred during transmission

```
<Chunk data size (Hex)>
{
  "path": [
    "/ccapi/ver110/contents/card1/100CANON/IMG_0001.JPG",
    "/ccapi/ver110/contents/card1/100CANON/MVI_0002.MP4",
    ...
    "/ccapi/ver110/contents/card1/100CANON/MVI_0100.MP4"
  ]
}
<Chunk data size (Hex)>
{
  "message": "During shooting or recording"
}
0
```

#### Response 200

When kind = number

**Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
contentsnumber	integer	Number of contents
pagenumber	integer	Number of pages

**JSON example**

```
{
  "contentsnumber": 150,
  "pagenumber": 2
}
```

**Response 400**

Kind= type の場合

**Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	メッセージ

**Message description**

Message	Description
Illegal query parameter	URL クエリパラメータが不正

**JSON example**

```
{
  "message": "Illegal query parameter"
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{  
    "message": "URL not found"  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## ■ Ver.1.2.0

### URI Parameters

Name	Status	Data Type	Description
storage	required	string	Storage name
directory	required	string	Directory name
type	optional	string	Target file format
kind	optional	string	Response data kind
order	optional	string	Contents acquisition order * Can be designated only when kind = chunked
page	optional	integer	Display page of contents to be acquired ex. When page = 2, the 101st to 200th contents will be displayed. * Can be designated only when kind = list (Default when page is not designated = 1)

### Value of type

Name	Description
all	All (Default when type is not designated)
jpeg	JPEG
hif	HEIF
cr2	CR2
cr3	CR3
wav	WAV
mp4	MP4
mov	MOV
crm	CRM

### Value of kind

Name	Description
list	Gets the list of contents. (Default when kind is not designated)
chunked	Gets the list of contents divided in chunk format.
number	Gets the number of contents and number of pages.

### Value of order

Name	Description

asc	Ascending order (Default when order is not designated)
desc	Descending order

## ■ GET

This gets the paths of the contents within the directory.

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

### Example URI

GET http://192.168.1.2:8080/ccapi/ver120/contents/card1/100CANON?type=hif

### Response 200

When kind = list

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
path	array [string]	Resource PATH (Max. 100 items)

#### JSON example

```
{
  "path": [
    "/ccapi/ver120/contents/card1/100CANON/IMG_0001.JPG",
    "/ccapi/ver120/contents/card1/100CANON/MVI_0002.MP4",
  ]
}
```

### Response 200

When kind = chunked

#### Headers

Header Field	Value
Content-Type	application/octet-stream
transfer-encoding	chunked

#### Body

The following JSON objects is sent for each chunk.

- When the URLs were sent properly

JSON Field	Data Type	Description
path	array [string]	Resource PATH - Max. 100 items per chunk

- When an error occurred during transmission

JSON Field	Data Type	Description
message	string	Error message

#### Chunked example

- When an error did not occur during transmission

```
<Chunk data size (Hex)>
{
  "path": [
    "/ccapi/ver120/contents/card1/100CANON/IMG_0001.JPG",
    "/ccapi/ver120/contents/card1/100CANON/MVI_0002.MP4",
    ...
    "/ccapi/ver120/contents/card1/100CANON/MVI_0100.MP4"
  ]
}
<Chunk data size (Hex)>
{
  "path": [
    "/ccapi/ver120/contents/card1/100CANON/IMG_0101.JPG",
    "/ccapi/ver120/contents/card1/100CANON/MVI_0102.MP4",
    ...
    "/ccapi/ver120/contents/card1/100CANON/MVI_0200.MP4"
  ]
}
0
```

- When an error occurred during transmission

```
<Chunk data size (Hex)>
{
  "path": [
    "/ccapi/ver120/contents/card1/100CANON/IMG_0001.JPG",
    "/ccapi/ver120/contents/card1/100CANON/MVI_0002.MP4",
    ...
    "/ccapi/ver120/contents/card1/100CANON/MVI_0100.MP4"
  ]
}
<Chunk data size (Hex)>
{
  "message": "During shooting or recording"
}
0
```

#### Response 200

When kind = number

**Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
contentsnumber	integer	Number of contents
pagenumber	integer	Number of pages

**JSON example**

```
{
  "contentsnumber": 150,
  "pagenumber": 2
}
```

**Response 400**

Kind= type の場合

**Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	メッセージ

**Message description**

Message	Description
Illegal query parameter	URL クエリパラメータが不正

**JSON example**

```
{
  "message": "Illegal query parameter"
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
  "message": "URL not found"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
  "message": "Device busy"
}
```

## ■ Ver.1.3.0

### URI Parameters

Name	Status	Data Type	Description
storage	required	string	Storage name
directory	required	string	Directory name
type	optional	string	Target file format
kind	optional	string	Response data kind
order	optional	string	Contents acquisition order * Can be designated only when kind = chunked
page	optional	integer	Display page of contents to be acquired ex. When page = 2, the 101st to 200th contents will be displayed. * Can be designated only when kind = list (Default when page is not designated = 1)

### Value of type

Name	Description
all	All (Default when type is not designated)
jpeg	JPEG
hif	HEIF
cr2	CR2
cr3	CR3
wav	WAV
mp4	MP4
mov	MOV
crm	CRM

### Value of kind

Name	Description
list	Gets the list of contents. (Default when kind is not designated)
chunked	Gets the list of contents divided in chunk format.
number	Gets the number of contents and number of pages.

### Value of order

Name	Description

asc	Ascending order (Default when order is not designated)
desc	Descending order

## ■ GET

This gets the paths of the contents within the directory.

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

### Example URI

GET http://192.168.1.2:8080/ccapi/ver130/contents/card1/100CANON?type=hif

### Response 200

When kind = list

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
path	array [string]	Resource PATH (Max. 100 items)

#### JSON example

```
{
  "path": [
    "/ccapi/ver130/contents/card1/100CANON/IMG_0001.JPG",
    "/ccapi/ver130/contents/card1/100CANON/MVI_0002.MP4",
  ]
}
```

### Response 200

When kind = chunked

#### Headers

Header Field	Value
Content-Type	application/octet-stream
transfer-encoding	chunked

#### Body

The following JSON objects is sent for each chunk.

- When the URLs were sent properly

JSON Field	Data Type	Description
path	array [string]	Resource PATH - Max. 100 items per chunk

- When an error occurred during transmission

JSON Field	Data Type	Description
message	string	Error message

#### Chunked example

- When an error did not occur during transmission

```
<Chunk data size (Hex)>
{
  "path": [
    "/ccapi/ver130/contents/card1/100CANON/IMG_0001.JPG",
    "/ccapi/ver130/contents/card1/100CANON/MVI_0002.MP4",
    ...
    "/ccapi/ver130/contents/card1/100CANON/MVI_0100.MP4"
  ]
}
<Chunk data size (Hex)>
{
  "path": [
    "/ccapi/ver130/contents/card1/100CANON/IMG_0101.JPG",
    "/ccapi/ver130/contents/card1/100CANON/MVI_0102.MP4",
    ...
    "/ccapi/ver130/contents/card1/100CANON/MVI_0200.MP4"
  ]
}
0
```

- When an error occurred during transmission

```
<Chunk data size (Hex)>
{
  "path": [
    "/ccapi/ver130/contents/card1/100CANON/IMG_0001.JPG",
    "/ccapi/ver130/contents/card1/100CANON/MVI_0002.MP4",
    ...
    "/ccapi/ver130/contents/card1/100CANON/MVI_0100.MP4"
  ]
}
<Chunk data size (Hex)>
{
  "message": "During shooting or recording"
}
0
```

#### Response 200

When kind = number

**Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
contentsnumber	integer	Number of contents
pagenumber	integer	Number of pages

**JSON example**

```
{
  "contentsnumber": 150,
  "pagenumber": 2
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
  "message": "URL not found"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.7.4. Delete directory

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/contents/[storage]/[directory]

##### URI Parameters

Name	Status	Data Type	Description
storage	required	string	Storage name
directory	required	string	Directory name

##### ■ Ver.1.0.0

##### ■ DELETE

This deletes a directory.

Contents files stored in the directory are also deleted.

However, when protected contents are stored, only unprotected contents are deleted.

##### Example URI

DELETE http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
message	string	Message

###### JSON example

```
{}
```

##### Response 404

###### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
  "message": "URL not found"
}
```

**Response 409****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Card not available	The media is corrupted.
Card protected	The media is protected.
Partial deletion	The contents were partially deleted. (Some contents could not be deleted.)

**JSON example**

```
{
  "message": "Card not available"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ Ver.1.1.0****■ DELETE**

This deletes a directory.

Contents files stored in the directory are also deleted.

However, when protected contents are stored, only unprotected contents are deleted.

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver110/contents/card1/100CANON

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**JSON example**

```
{}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
    "message": "URL not found"
}
```

**Response 409****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Card not available	The media is corrupted.
Card protected	The media is protected.
Partial deletion	The contents were partially deleted. (Some contents could not be deleted.)

**JSON example**

```
{
    "message": "Card not available"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ Ver.1.2.0****■ DELETE**

This deletes a directory.

Contents files stored in the directory are also deleted.

However, when protected contents are stored, only unprotected contents are deleted.

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver120/contents/card1/100CANON

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**JSON example**

```
{}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
    "message": "URL not found"
}
```

**Response 409****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Card not available	The media is corrupted.
Card protected	The media is protected.

Partial deletion	The contents were partially deleted. (Some contents could not be deleted.)
------------------	--

**JSON example**

```
{
    "message": "Card not available"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

**■ Ver.1.3.0****■ DELETE**

This deletes a directory.

Contents files stored in the directory are also deleted.

However, when protected contents are stored, only unprotected contents are deleted.

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver130/contents/card1/100CANON

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**JSON example**

{}

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**{  
    "message": "URL not found"  
}**Response 409****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Card not available	The media is corrupted.
Card protected	The media is protected.
Partial deletion	The contents were partially deleted. (Some contents could not be deleted.)

**JSON example**

```
{
  "message": "Card not available"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

#### 4.7.5. Get contents

##### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/contents/[storage]/[directory]/[file][?kind]`

##### URI Parameters

Name	Status	Data Type	Description
storage	required	string	Storage name
directory	required	string	Directory name
file	required	string	File name
kind	optional	string	Contents kind

##### Value of kind

Name	Description
main	Main data (Default when kind is not designated)
thumbnail	Thumbnail image
display	Display image
embedded	Embedded image * RAW only
info	File information

The type of contents that can be acquired differs according to the file format. When a file type that cannot be acquired is designated, 400 Illegal query parameter is returned. For details, check "Response 400" hereafter.

##### ■ Ver.1.0.0

##### ■ GET

This gets contents.

##### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON/IMG_0001.JPG?kind=thum  
bnail`

##### Response 200

When kind = info

**Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
filesize	integer	File size (byte)
protect	String	Protect
archive	string	Archive
rotate	string	Rotation angle
rating	string	Rating
lastmodifieddate	string	Last modified date and time
playtime	integer (nullable)	Play time (seconds) * null for other than movies.

**Value of protect**

Name	Description
enable	Enabled
disable	Disabled

**Value of archive**

Name	Description
enable	Enabled
disable	Disabled

**Value of rotate**

Name	Description
0	Rotation angle 0 degrees
90	Rotation angle 90 degrees
180	Rotation angle 180 degrees
270	Rotation angle 270 degrees

**Value of rating**

Name	Description
off	None
1	Rating (number of ☆) 1

2	Rating (number of ☆) 2
3	Rating (number of ☆) 3
4	Rating (number of ☆) 4
5	Rating (number of ☆) 5

**JSON example**

```
{
    "filesize": 123456789,
    "protect": "enable",
    "archive": "disable",
    "rotate": "0",
    "rating": "off",
    "lastmodifieddate": "Wed, 04 Jul 2018 12:34:56 GMT",
    "playtime": 123
}
```

**Response 200**

When kind = other than info

**Headers**

Header Field	Value
Content-Type	image/jpeg video/mp4 video/quicktime application/octet-stream audio/wav

**Body**

Binary data of the designated kind of contents

**Response 206**

When a Range request is sent with kind = other than info

**Headers**

Header Field	Value
Content-Type	image/jpeg video/mp4 video/quicktime application/octet-stream audio/wav
Content-Range	bytes XXX-YYY/ZZZ

	* XXX = Start offset, YYY = End offset, ZZZ = Overall data size
Accept-Ranges	bytes

**Body**

Binary data of the designated kind of contents

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	String	Message

**Message description**

Message	Description
Illegal query parameter	The URL query parameter is illegal.

**Cause of error**

kind	Description
thumbnail	- File format is wav
display	- File recorded by other camera - File format other than JPEG/CR3 - JPEG size S2 or less - JPEG cropped from movie or RAW
embedded	- File format other than CR2/CR3 - File recorded in HDR

**JSON example**

```
{
  "message": "Illegal query parameter"
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
  "message": "URL not found"
}
```

**Response 416****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Requested range not satisfiable	The contents range designation is outside the allowable range.

**JSON example**

```
{
  "message": "Requested range not satisfiable"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
    "message": "Device busy"
}
```

**■ Ver.1.1.0****■ GET**

This gets contents.

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver110/contents/card1/100CANON/IMG\_0001.HIF?kind=thumbnail

**Response 200**

When kind = info

**Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
filesize	integer	File size (byte)
protect	string	Protect
archive	string	Archive
rotate	string	Rotation angle
rating	string	Rating

lastmodifieddate	string	Last modified date and time
playtime	integer (nullable)	Play time (seconds) * null for other than movies.
hdr	string	HDR method

**Value of protect**

Name	Description
enable	Enabled
disable	Disabled

**Value of archive**

Name	Description
enable	Enabled
disable	Disabled

**Value of rotate**

Name	Description
0	Rotation angle 0 degrees
90	Rotation angle 90 degrees
180	Rotation angle 180 degrees
270	Rotation angle 270 degrees

**Value of rating**

Name	Description
off	None
1	Rating (number of ☆) 1
2	Rating (number of ☆) 2
3	Rating (number of ☆) 3
4	Rating (number of ☆) 4
5	Rating (number of ☆) 5

**Value of hdr**

Name	Description
pq	PQ method
off	None

**JSON example**

```
{
  "filesize": 123456789,
  "protect": "enable",
  "archive": "disable",
  "rotate": "0",
  "rating": "off",
  "lastmodifieddate": "Wed, 04 Jul 2018 12:34:56 GMT",
  "playtime": null,
  "hdr": "pq"
}
```

**Response 200**

When kind = other than info

**Headers**

Header Field	Value
Content-Type	image/jpeg video/mp4 video/quicktime application/octet-stream audio/wav

**Body**

Binary data of the designated kind of contents

**Response 206**

When a Range request is sent with kind = other than info

**Headers**

Header Field	Value
Content-Type	image/jpeg image/heif video/mp4 video/quicktime application/octet-stream audio/wav
Content-Range	bytes XXX-YYY/ZZZ * XXX = Start offset, YYY = End offset, ZZZ = Overall data size
Accept-Ranges	bytes

**Body**

Binary data of the designated kind of contents

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	String	Message

**Message description**

Message	Description
Illegal query parameter	The URL query parameter is illegal.

**Cause of error**

kind	Description
thumbnail	- File format is wav
display	- File recorded by other camera - File format other than JPEG/CR3 - JPEG size S2 or less - JPEG cropped from movie or RAW
embedded	- File format other than CR2/CR3 - File recorded in HDR

**JSON example**

```
{
  "message": "Illegal query parameter"
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	String	Message

**Message description**

<b>Message</b>	<b>Description</b>
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
  "message": "URL not found"
}
```

**Response 416****Headers**

<b>Header Field</b>	<b>Value</b>
Content-Type	application/json

**Body**

<b>JSON Field</b>	<b>Data Type</b>	<b>Description</b>
message	string	Message

**Message description**

<b>Message</b>	<b>Description</b>
Requested range not satisfiable	The contents range designation is outside the allowable range.

**JSON example**

```
{
  "message": "Requested range not satisfiable"
}
```

**Response 503****Headers**

<b>Header Field</b>	<b>Value</b>
Content-Type	application/json

**Body**

<b>JSON Field</b>	<b>Data Type</b>	<b>Description</b>
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
    "message": "Device busy"
}
```

**■ Ver.1.2.0****■ GET**

This gets contents.

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver120/contents/card1/100CANON/IMG\_0001.HIF?kind=thumbnail

**Response 200**

When kind = info

**Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
filesize	integer	File size (byte)
protect	string	Protect
archive	string	Archive
rotate	string	Rotation angle
rating	string	Rating
lastmodifieddate	string	Last modified date and time
playtime	integer (nullable)	Play time (seconds) * null for other than movies.
hdr	string	HDR method

**Value of protect**

Name	Description
enable	Enabled
disable	Disabled

**Value of archive**

Name	Description
enable	Enabled
disable	Disabled

**Value of rotate**

Name	Description
0	Rotation angle 0 degrees
90	Rotation angle 90 degrees
180	Rotation angle 180 degrees
270	Rotation angle 270 degrees

**Value of rating**

Name	Description
off	None
1	Rating (number of ☆) 1
2	Rating (number of ☆) 2
3	Rating (number of ☆) 3
4	Rating (number of ☆) 4
5	Rating (number of ☆) 5

**Value of hdr**

Name	Description
pq	PQ method
off	None

**JSON example**

```
{
    "filesize": 123456789,
    "protect": "enable",
    "archive": "disable",
    "rotate": "0",
```

```

    "rating": "off",
    "lastmodifieddate": "Wed, 04 Jul 2018 12:34:56 GMT",
    "playtime": null,
    "hdr": "pq"
}

```

**Response 200**

When kind = other than info

**Headers**

Header Field	Value
Content-Type	image/jpeg video/mp4 video/quicktime application/octet-stream audio/wav

**Body**

Binary data of the designated kind of contents

**Response 206**

When a Range request is sent with kind = other than info

**Headers**

Header Field	Value
Content-Type	image/jpeg image/heif video/mp4 video/quicktime application/octet-stream audio/wav
Content-Range	bytes XXX-YYY/ZZZ * XXX = Start offset, YYY = End offset, ZZZ = Overall data size
Accept-Ranges	bytes

**Body**

Binary data of the designated kind of contents

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	String	Message

**Message description**

Message	Description
Illegal query parameter	The URL query parameter is illegal.

**Cause of error**

kind	Description
thumbnail	- File format is wav
display	- File recorded by other camera - File format other than JPEG/CR3 - JPEG size S2 or less - JPEG cropped from movie or RAW
embedded	- File format other than CR2/CR3 - File recorded in HDR

**JSON example**

```
{
  "message": "Illegal query parameter"
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	String	Message

**Message description**

Message	Description
---------	-------------

URL not found	URL for contents not present in the storage area
---------------	--

**JSON example**

```
{
  "message": "URL not found"
}
```

**Response 416****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Requested range not satisfiable	The contents range designation is outside the allowable range.

**JSON example**

```
{
  "message": "Requested range not satisfiable"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the

	function is unavailable.
--	--------------------------

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ Ver.1.3.0****■ GET**

This gets contents.

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver130/contents/card1/100CANON/IMG\_0001.HIF?kind=thumbnail

**Response 200**

When kind = info

**Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
filesize	integer	File size (byte)
protect	string	Protect
archive	string	Archive
rotate	string	Rotation angle
rating	string	Rating
lastmodifieddate	string	Last modified date and time
playtime	integer (nullable)	Play time (seconds) * null for other than movies.
hdr	string	HDR method

**Value of protect**

Name	Description
enable	Enabled

disable	Disabled
---------	----------

**Value of archive**

Name	Description
enable	Enabled
disable	Disabled

**Value of rotate**

Name	Description
0	Rotation angle 0 degrees
90	Rotation angle 90 degrees
180	Rotation angle 180 degrees
270	Rotation angle 270 degrees

**Value of rating**

Name	Description
off	None
1	Rating (number of ☆) 1
2	Rating (number of ☆) 2
3	Rating (number of ☆) 3
4	Rating (number of ☆) 4
5	Rating (number of ☆) 5

**Value of hdr**

Name	Description
pq	PQ method
off	None

**JSON example**

```
{
  "filesize": 123456789,
  "protect": "enable",
  "archive": "disable",
  "rotate": "0",
  "rating": "off",
  "lastmodifieddate": "Wed, 04 Jul 2018 12:34:56 GMT",
  "playtime": null,
  "hdr": "pq"
}
```

**Response 200**

When kind = other than info

**Headers**

Header Field	Value
Content-Type	image/jpeg video/mp4 video/quicktime application/octet-stream audio/wav

**Body**

Binary data of the designated kind of contents

**Response 206**

When a Range request is sent with kind = other than info

**Headers**

Header Field	Value
Content-Type	image/jpeg image/heif video/mp4 video/quicktime application/octet-stream audio/wav
Content-Range	bytes XXX-YYY/ZZZ * XXX = Start offset, YYY = End offset, ZZZ = Overall data size
Accept-Ranges	bytes

**Body**

Binary data of the designated kind of contents

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description

message	String	Message
---------	--------	---------

**Message description**

Message	Description
Illegal query parameter	The URL query parameter is illegal.

**Cause of error**

kind	Description
thumbnail	- File format is wav
display	- File recorded by other camera - File format other than JPEG/CR3 - JPEG size S2 or less - JPEG cropped from movie or RAW
embedded	- File format other than CR2/CR3 - File recorded in HDR

**JSON example**

```
{
  "message": "Illegal query parameter"
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	String	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
  "message": "URL not found"
}
```

**Response 416****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Requested range not satisfiable	The contents range designation is outside the allowable range.

**JSON example**

```
{
  "message": "Requested range not satisfiable"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
  "message": "Device busy"
}
```

#### 4.7.6. Modify contents

##### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/contents/[storage]/[directory]/[file]`

##### URI Parameters

Name	Status	Data Type	Description
storage	required	string	Storage name
directory	required	string	Directory name
file	required	string	File name

##### ■ Ver.1.0.0

##### ■ PUT

This modifies the file attributes and metadata of contents.

##### Example URI

`PUT http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON/IMG_0001.JPG`

##### Request

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
action	string	Contents operation type
value	string	Setting value

###### Value of action

Name	Description
rotate	Rotate image
protect	Protect
archive	Archive
rating	Rating

###### Value of value

- When value = rotate

Name	Description
0	Rotation angle 0 degrees
90	Rotation angle 90 degrees
180	Rotation angle 180 degrees
270	Rotation angle 270 degrees

- When value = protect or archive

Name	Description
enable	Enables protect or archive, respectively
disable	Disables protect or archive, respectively

- When value = rating

Name	Description
off	None
1	Rating (number of ☆) 1
2	Rating (number of ☆) 2
3	Rating (number of ☆) 3
4	Rating (number of ☆) 4
5	Rating (number of ☆) 5

#### JSON example

```
{
  "action": "protect",
  "value": "enable"
}
```

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

Empty JSON object

#### JSON example

```
{}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>action or value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
  "message": "URL not found"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This deletes contents.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON/IMG\_0001.JPG

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

```
{}
```

**Response 409****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Card not available	The media is corrupted.
Card protected	The media is protected.
File protected	The contents are protected.

**JSON example**

```
{
  "message": "Card not available"
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
  "message": "URL not found"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ Ver.1.1.0****■ PUT**

This modifies the file attributes and metadata of contents.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver110/contents/card1/100CANON/IMG\_0001.HIF

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
action	string	Contents operation type
value	string	Setting value

**Value of action**

Name	Description
rotate	Rotate image
protect	Protect
archive	Archive
rating	Rating

**Value of value**

- When value = rotate

Name	Description
0	Rotation angle 0 degrees
90	Rotation angle 90 degrees
180	Rotation angle 180 degrees
270	Rotation angle 270 degrees

- When value = protect or archive

Name	Description
enable	Enables protect or archive, respectively
disable	Disables protect or archive, respectively

- When value = rating

Name	Description
off	None
1	Rating (number of ☆) 1
2	Rating (number of ☆) 2
3	Rating (number of ☆) 3
4	Rating (number of ☆) 4
5	Rating (number of ☆) 5

**JSON example**

```
{
  "action": "protect",
  "value": "enable"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

{}

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	action or value is an illegal value. - Nonexistent value - Non-string value - An unanticipated character string is input.

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
  "message": "URL not found"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This deletes contents.

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver110/contents/card1/100CANON/IMG\_0001.HIF

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

{}

**Response 409****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Card not available	The media is corrupted.
Card protected	The media is protected.
File protected	The contents are protected.

**JSON example**{  
    "message": "Card not available"  
}**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
  "message": "URL not found"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ Ver.1.2.0****■ PUT**

This modifies the file attributes and metadata of contents.

For GPS, settings can be changed multiple times and will be overwritten with or without existing settings.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver120/contents/card1/100CANON/IMG\_0001.HIF

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
action	string	Contents operation type
value	string	Setting value

**Value of action**

Name	Description
rotate	Rotate image
protect	Protect
archive	Archive
rating	Rating
gps	GPS(Global Positioning System)

**Value of value**

- When value = rotate

Name	Description
0	Rotation angle 0 degrees
90	Rotation angle 90 degrees
180	Rotation angle 180 degrees
270	Rotation angle 270 degrees

- When value = protect, archive

Name	Description
enable	Enables protect or archive, respectively
disable	Disables protect or archive, respectively

- When value = rating

Name	Description
off	None
1	Rating (number of ☆) 1

2	Rating (number of ☆) 2
3	Rating (number of ☆) 3
4	Rating (number of ☆) 4
5	Rating (number of ☆) 5

**Object of gps**

JSON Field	Data Type	Description
latitude_ref	string	Latitude Reference
latitude	gps_rational	Latitude
longitude_ref	string	Longitude Reference
longitude	gps_rational	Longitude
altitude_ref	string	Altitude Reference
altitude	array [integer]	Altitude 32bit unsigned int. (2 items) [0]: Molecules [1]: Denominator
timestamp	time_rational	Time stamp
mapdatum	string	Map datum (Maximum 255 characters)
status	string	Satellite acquisition status
datestamp	string	date stamp

**Value of latitude\_ref**

Name	Description
N	North
S	South

**Value of longitude\_ref**

Name	Description
E	East
W	West

**Value of altitude\_ref**

Name	Description
P	Above sea level
M	depth of water

**Value of status**

Name	Description
A	Acquired
V	Not acquired

**Object of gps\_rational**

JSON Field	Data Type	Description
degree	array [integer]	32bit unsigned int. (2 items) [0]: Molecules [1]: Denominator
minute	array [integer]	
second	array [integer]	

**Object of time\_rational**

JSON Field	Data Type	Description
hour	array [integer]	32bit unsigned int. (2 items) [0]: Molecules [1]: Denominator
minute	array [integer]	
second	array [integer]	

**JSON example**

{ "action": "protect", "value": "enable" }
{ "action": "gps", "gps": { "latitude_ref": "N", "latitude": {"degree": [1234, 1000], "minute": [1234, 1000], "second": [1234, 1000]}, "longitude_ref": "E", "longitude": {"degree": [1234, 1000], "minute": [1234, 1000], "second": [1234, 1000]}, "altitude_ref": "P", "altitude": [1234, 1000], "timestamp": {"hour": [1234, 1000], "minute": [1234, 1000], "second": [1234, 1000]}, "mapdatum": "WGS-84", "status": "A", "datestamp": "2019:08:19" } }

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

```
{}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>action or value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input.</li> </ul>

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
    "message": "URL not found"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

**■ DELETE**

This deletes contents.

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver120/contents/card1/100CANON/IMG\_0001.HIF

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

```
{}
```

**Response 409****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Card not available	The media is corrupted.
Card protected	The media is protected.
File protected	The contents are protected.

**JSON example**

```
{
  "message": "Card not available"
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
  "message": "URL not found"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ Ver.1.3.0****■ PUT**

This modifies the file attributes and metadata of contents.

For GPS and XMP description, settings can be changed multiple times and will be overwritten with or without existing settings.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver130/contents/card1/100CANON/IMG\_0001.HIF

**Request****Headers**

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

JSON Field	Data Type	Description
action	string	Contents operation type
value	string	Setting value

**Value of action**

Name	Description
rotate	Rotate image
protect	Protect
archive	Archive
rating	Rating
gps	GPS(Global Positioning System)
xmp_description	XMP description

**Value of value**

- When value = rotate

Name	Description
0	Rotation angle 0 degrees
90	Rotation angle 90 degrees
180	Rotation angle 180 degrees
270	Rotation angle 270 degrees

- When value = protect, archive

Name	Description
enable	Enables protect or archive, respectively
disable	Disables protect or archive, respectively

- When value = rating

➤ Name	Description
off	None
1	Rating (number of ☆) 1
2	Rating (number of ☆) 2
3	Rating (number of ☆) 3
4	Rating (number of ☆) 4

5	Rating (number of ☆) 5
---	------------------------

- When value = xmp\_description

XMP information is inserted into the XMP description tag as follows:

<rdf:Description [value]>

#### Object of gps

JSON Field	Data Type	Description
latitude_ref	string	Latitude Reference
latitude	gps_rational	Latitude
longitude_ref	string	Longitude Reference
longitude	gps_rational	Longitude
altitude_ref	string	Altitude Reference
altitude	array [integer]	Altitude 32bit unsigned int. (2 items) [0]: Molecules [1]: Denominator
timestamp	time_rational	Time stamp
mapdatum	string	Map datum (Maximum 255 characters)
status	string	Satellite acquisition status
datestamp	string	date stamp

#### Value of latitude\_ref

Name	Description
N	North
S	South

#### Value of longitude\_ref

Name	Description
E	East
W	West

#### Value of altitude\_ref

Name	Description
P	Above sea level
M	depth of water

**Value of status**

Name	Description
A	Acquired
V	Not acquired

**Object of gps\_rational**

JSON Field	Data Type	Description
degree	array [integer]	32bit unsigned int. (2 items) [0]: Molecules [1]: Denominator
minute	array [integer]	
second	array [integer]	

**Object of time\_rational**

JSON Field	Data Type	Description
hour	array [integer]	32bit unsigned int. (2 items) [0]: Molecules [1]: Denominator
minute	array [integer]	
second	array [integer]	

**JSON example**

```
{
  "action": "protect",
  "value": "enable"
}
{
  "action": "gps",
  "gps": {
    "latitude_ref": "N",
    "latitude": {"degree": [1234, 1000], "minute": [1234, 1000], "second": [1234, 1000]},
    "longitude_ref": "E",
    "longitude": {"degree": [1234, 1000], "minute": [1234, 1000], "second": [1234, 1000]},
    "altitude_ref": "P",
    "altitude": [1234, 1000],
    "timestamp": {"hour": [1234, 1000], "minute": [1234, 1000], "second": [1234, 1000]},
    "mapdatum": "WGS-84",
    "status": "A",
    "datestamp": "2019:08:19"
  }
}
{
  "action": "xmp_description",
  "value": "xmlns:C=http://canon.com/camera/1.0/ C:Yaw=261.927 C:Pitch=-0.038 C:Roll=0.096"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

{}

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	action or value is an illegal value. - Nonexistent value - Non-string value - An unanticipated character string is input.

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{
    "message": "URL not found"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

**■ DELETE**

This deletes contents.

This API is unavailable while shooting, recording, movie mode, or get contents is in progress.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver120/contents/card1/100CANON/IMG\_0001.HIF

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

```
{}
```

**Response 409****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Card not available	The media is corrupted.
Card protected	The media is protected.
File protected	The contents are protected.

**JSON example**

```
{
    "message": "Card not available"
}
```

**Response 404****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
URL not found	URL for contents not present in the storage area

**JSON example**

```
{  
    "message": "URL not found"  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.8. Shooting Control

### 4.8.1. Still image shooting

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/control/shutterbutton

#### ■ POST

This executes still image shooting.

#### Example URI

POST http://192.168.1.2:8080/ccapi/ver100/shooting/control/shutterbutton

#### Request

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
af	boolean	AF enable/disable

##### JSON example

```
{  
    "af": true  
}
```

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

Empty JSON object

##### JSON example

```
{}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	af is an illegal value. - Nonexistent value - Non-boolean value

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.
Taken in preparation	Service preparation is in progress. - When the API first called in the connection standby state was this API (The connection is

	not yet complete, so the process cannot be accepted.)
Out of focus	AF focusing failed during shooting.
Can not write to card	Data could not be recorded on the media during shooting.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.8.2. Still image shutter button control

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/control/shutterbutton/manual

### ■ POST

This executes still image shutter button control.

#### Example URI

POST http://192.168.1.2:8080/ccapi/ver100/shooting/control/shutterbutton/manual

#### Request

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
action	string	Shutter button operation kind
af	boolean	AF enable/disable

##### Value of action

Name	Description
release	Releases the shutter button.
half_press	Presses the shutter button halfway
full_press	Presses the shutter button completely

##### JSON example

```
{  
    "action": "half_press",  
    "af": true  
}
```

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

{}
----

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>action is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input.</li> </ul> <p>af is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-boolean value</li> </ul>

**JSON example**

{       "message": "Invalid parameter"     }
--

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.
Taken in preparation	Service preparation is in progress. - When the API first called in the connection standby state was this API (The connection is not yet complete, so the process cannot be accepted.)
Out of focus	AF focusing failed during shooting.
Can not write to card	Data could not be recorded on the media during shooting.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

### 4.8.3. Ignore shooting mode dial mode

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/control/ignoreshootingsmodedialmode

#### ■ GET

This gets the Ignore shooting mode dial mode status.

Not available when the shooting mode dial is set to movie.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/control/ignoreshootingsmodedialmode

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
status	string	status of ignore shooting mode dial mode.

##### Value of status

Name	Description
on	start
off	stop

##### JSON example

```
{  
    "status": "off"  
}
```

#### ■ POST

This executes ignore shooting mode dial mode start or stop.

#### Example URI

POST http://192.168.1.2:8080/ccapi/ver100/shooting/control/ignoreshootingsmodedialmode

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
action	string	status of ignore shooting mode dial mode.

**Value of action**

Name	Description
on	start
off	stop

**JSON example**

```
{
  "action": "on"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

```
{}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>action is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	<p>The request cannot be made in the current mode.</p> <ul style="list-style-type: none"> <li>- An attempt was made to change the status to "on" when the mode dial is set to movie.</li> </ul>

**JSON example**

```
{
  "message": "Device busy"
}
```

#### 4.8.4. Movie mode

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/control/moviemode

##### ■ GET

This gets the movie mode status.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/control/moviemode

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
status	string	Movie mode status

###### Value of status

Name	Description
on	Start
off	Stop

###### JSON example

```
{  
    "status": "off"  
}
```

##### ■ POST

This executes movie mode start or stop.

##### Example URI

POST http://192.168.1.2:8080/ccapi/ver100/shooting/control/moviemode

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
action	string	Movie mode status

**Value of action**

Name	Description
on	Start
off	Stop

**JSON example**

```
{
  "action": "on"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

```
{}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>action is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	<p>The request cannot be made in the current mode.</p> <ul style="list-style-type: none"> <li>- An attempt was made to set "off" while movie mode is in progress.</li> </ul>
Taken in preparation	<p>Service preparation is in progress.</p> <ul style="list-style-type: none"> <li>- When the API first called in the connection standby state was this API (The connection is not yet complete, so the process cannot be accepted.)</li> </ul>
Live view not started	<p>Live View has not started.</p> <ul style="list-style-type: none"> <li>- An attempt was made to start movie mode in the state with Remote Live View not started and the TFT LCD off (display off) ("liveviewsize":"0" and "cameradisplay":"off")</li> </ul>

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.8.5. Movie recording button control

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/control/recbutton

##### ■ POST

This executes movie recording button control.

##### Example URI

POST http://192.168.1.2:8080/ccapi/ver100/shooting/control/recbutton

##### Request

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
action	string	Movie recording status

###### Value of action

Name	Description
start	Starts movie recording
stop	Stops movie recording

###### JSON example

```
{  
    "action": "start"  
}
```

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

Empty JSON object

###### JSON example

```
{}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>action is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input.</li> </ul> <p>[When action is stop]</p> <ul style="list-style-type: none"> <li>- Movie recording is not in progress.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current

	mode.
Taken in preparation	<p>Service preparation is in progress.</p> <ul style="list-style-type: none"><li>- When the API first called in the connection standby state was this API (The connection is not yet complete, so the process cannot be accepted.)</li></ul>
Can not write to card	Data could not be recorded on the media during shooting.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.8.6. Zoom control

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/control/zoom

#### ■ GET

This gets the zoom position.

In case of a Canon camera that is not a PowerShot series, this API is not supported. Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/control/zoom

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	integer	Present value
ability	Object of range	Ability values

##### Object of range

JSON Field	Data Type	Description
min	integer	Minimum value
max	integer	Maximum value
step	integer	Step

##### JSON example

```
{  
    "value": 50,  
    "ability": {"min":0, "max":100, "step":1}  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Taken in preparation	Service preparation is in progress. - When the API first called in the connection standby state was this API (The connection is not yet complete, so the process cannot be accepted.)

**JSON example**

```
{
    "message": "Taken in preparation"
}
```

**■ POST**

This executes zoom control.

**Example URI**

POST http://192.168.1.2:8080/ccapi/ver100/shooting/control/zoom

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	integer	Setting value

**JSON example**

```
{
```

```
{
    "value": 50
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	integer	Present value

**JSON example**

```
{
    "value": 50
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value below the ability minimum value is input.</li> <li>- A value that exceeds the ability maximum value is input.</li> <li>- A value that does not conform to the ability step is input.</li> </ul>

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

```
}
```

### Response 503

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
message	string	Message

#### Message description

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Taken in preparation	Service preparation is in progress. - When the API first called in the connection standby state was this API (The connection is not yet complete, so the process cannot be accepted.)

#### JSON example

```
{
    "message": "Device busy"
}
```

## 4.8.7. Focus drive

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/control/drivefocus`

### ■ POST

This executes focus drive.

This API does not operate when AF operation (/ afoperation) is manual.

This API is not supported for Canon cameras with built-in lenses.

#### Example URI

POST `http://192.168.1.2:8080/ccapi/ver100/shooting/control/drivefocus`

#### Request

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

Field	Data Type	Description
value	string	Setting value

##### Value of value

Name	Description
near1	Lens drive amount: small
near2	Lens drive amount: medium
near3	Lens drive amount: large
far1	Lens drive amount: small
far2	Lens drive amount: medium
far3	Lens drive amount: large

##### JSON example

{ "value": "near1" }
----------------------------

#### Response 200

##### Headers

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

Empty JSON object

**JSON example**

{}

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
---------	-------------

Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Taken in preparation	Service preparation is in progress. - When the API first called in the connection standby state was this API (The connection is not yet complete, so the process cannot be accepted.)

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.8.8. Auto focus

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/control/af

##### ■ POST

This executes only auto focus.

This API only issues a focusing instruction, and does not return the focusing results.

For the focusing results, check the focus frame information in the Live View incidental information.

##### Example URI

POST http://192.168.1.2:8080/ccapi/ver100/shooting/control/af

##### Request

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
action	string	Auto focus status

###### Value of action

Name	Description
start	Starts only the auto focus
stop	Stops only the auto focus

###### JSON example

```
{  
    "action": "start"  
}
```

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

{}

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - An unanticipated character string is input.

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the

	function is unavailable.
Taken in preparation	Service preparation is in progress. - When the API first called in the connection standby state was this API (The connection is not yet complete, so the process cannot be accepted.)
Already started	Processing has already started.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.8.9. Flicker detection

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/control/flickerdetection

##### ■ POST

This executes the Flicker detection.

##### Example URI

POST http://192.168.1.2:8080/ccapi/ver110/shooting/control/flickerdetection

##### Request

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
action	string	Flicker detection status

###### Value of action

Name	Description
start	Flicker detection start

###### JSON example

```
{  
    "action": "start"  
}
```

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
result	string	Flicker detection result

**Value of result**

Name	Description
ok	Detected flicker
ng	Undetected flicker

**JSON example**

```
{
  "result": "ok"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	action is an illegal value. - Nonexistent value - Non-string value - An unanticipated character string is input

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable. - HF flicker Detection is in progress. - Movie mode is in progress

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.8.10. HF flicker detection

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/control/hflickerdetection`

### ■ POST

This executes the HF flicker detection.

If you want to set the recommended Tv value obtained from the detection result to the camera, please request with ("apply\_result": true).and If you do not want to set it to the camera, please request with ("apply\_result": false).

If the recommended Tv value obtained from the detection result is not set in the camera, the camera will be in the high frequency flicker detection result display state after high frequency flicker detection, and some APIs will not be able to be executed.

When the following API is executed, the high frequency flicker detection result display state ends.

"Request ("action ":"cancel") with the high frequency flicker detection API (/ shooting / control / hflickerdetection)" or "Change to the recommended Tv value with the high frequency flicker TV API (/ shooting / settings / hflickerty)"

### Example URI

POST `http://192.168.1.2:8080/ccapi/ver110/shooting/control/hflickerdetection`

### Request

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
action	string	HF flicker detection status
apply_result	boolean	Whether to set the camera to the recommended Tv value obtained from the detection results.

#### Value of action

Name	Description
start	HF flicker detection start
cancel	HF flicker detection cancel

**Value of apply\_result**

Name	Description
true	When the HF flicker is detected, set the recommended TV value for the camera
false	When the HF flicker is detected, do not set the recommended TV value for the camera

**JSON example**

```
{
  "action": "start",
  "apply_result": false
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
result	string	HF flicker detection result
frequency	string	Detected HF flicker value [Hz]
tv	string	Recommended Tv Value

**Value of result**

Name	Description
ok	HF flicker was detected
ng	HF flicker was not detected

**JSON example**

```
{
  "result": "ok",
  "tv": "1/100.0",
  "frequency": "100.00"
}
```

**Response 400****Headers**

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>action is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input</li> </ul> <p>apply_result is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-boolean value</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	<p>The function is temporarily unavailable.</p> <ul style="list-style-type: none"> <li>- Camera is not in LV display state</li> <li>- HF flicker Detection is in progress.</li> </ul>
Mode not supported	<p>The request cannot be made in the current mode.</p> <ul style="list-style-type: none"> <li>- HF flickerless shooting is OFF</li> </ul>

	- Recording state of the movie
--	--------------------------------

**JSON example**

{ "message": "Device busy" }
------------------------------------

## 4.8.11. HF flicker TV change

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/control/hfflickertv`

### ■ POST

This changes the TV value of the HF flicker.

Check the changed Tv value in the following ways:

- Get Present value with the HF flicker TV API (`/shooting/settings/hfflickertv`)
- Get camera state Get HF flicker Tv (`hfflickertv`) with API (`/event/polling` or `/event/monitoring`)

### Example URI

POST `http://192.168.1.2:8080/ccapi/ver110/shooting/control/hfflickertv`

### Request

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
value	string	Setting value

#### Value of value

Name	Description
decrement_large	Tv value decremen denominator (Amount of change : Large)
decrement_small	Tv value decrease denominator (Amount of change : Small)
increment_small	Tv value increase denominator (Amount of change : Small)
increment_large	Tv value increase denominator (Amount of change : Large)

#### JSON example

```
{
  "value": "decrement_large"
}
```

### Response 200

#### Headers

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

Empty JSON object

**JSON example**

{}

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input</li> <li>- The Tv value has reached the upper or lower limit.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable. - HF flicker detection is in progress.
Mode not supported	The request cannot be made in the current mode. - HF flickerless shooting is OFF - Recording state of the movie

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9. Shooting Settings

### 4.9.1. Get all shooting parameters

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings

#### ■ Ver.1.0.0

#### ■ GET

This gets all of the present values and ability values of the shooting parameters that can be acquired by Ver.1.0.0 APIs supported by the Canon camera.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

Of the following JSON Field items, the items supported by the API are returned.

For the data structure of each item, refer to the GET section of each item.

JSON Field	Data Type	Description
shootingmode	object	Shooting mode (models without a shooting mode dial)
shootingmodedial	object	Shooting mode (models with a shooting mode dial)
shootingmodedial_movie	object	Movie recording mode (models without a shooting mode dial)
av	object	AV
tv	object	TV
iso	object	ISO
exposure	object	Exposure compensation
wb	object	White balance
colortemperature	object	Color temperature

afoperation	object	AF operation
afmethod	object	AF method
stillimagequality	object	Still image shooting image quality
stillimageaspectratio	object	Still image aspect ratio
flash	object	Flash
metering	object	Metering mode
drive	object	Continuous shooting mode
aeb	object	Exposure bracket
wbshift	object	WB shift
wbbracket	object	WB bracket
colorspace	object	Color space
picturestyle	object	Picture style kind
picturestyle_auto	object	Picture style (auto)
picturestyle_standard	object	Picture style (standard)
picturestyle_portrait	object	Picture style (portrait)
picturestyle_landscape	object	Picture style (landscape)
picturestyle_finedetail	object	Picture style (finedetail)
picturestyle_neutral	object	Picture style (neutral)
picturestyle_faithful	object	Picture style (faithful)
picturestyle_monochrome	object	Picture style (monochrome)
picturestyle_userdef1	object	Picture style (userdef1)
picturestyle_userdef1_basepicturestyle	object	Base picture style (userdef1)
picturestyle_userdef2	object	Picture style (userdef2)
picturestyle_userdef2_basepicturestyle	object	Base picture style (userdef2)
picturestyle_userdef3	object	Picture style (userdef3)
picturestyle_userdef3_basepicturestyle	object	Base picture style (userdef3)
moviequality	object	Movie recording image quality
soundrecording	object	Sound recording settings
soundrecording_level	object	Sound recording level
soundrecording_windfilter	object	Wind filter
soundrecording_attenuator	object	Attenuator

**JSON example**

```
{
  "shootingmodedial": {
```

```
        "value":"m",
        "ability": []
    },
    "av": {
        "value":"f5. 6",
        "ability":["f4. 5","f5. 0","f5. 6", ... "f22","f25","f29"]
    },
    "tv": {
        "value":"1¥/125",
        "ability":["30¥","", "25¥","", "20¥","", ... "1¥/2500", "1¥/3200", "1¥/4000"]
    },
    ...
}
```

A JSON object such as the following is returned for items that cannot be acquired for reasons such as the shooting mode.

```
{
    "exposure": {
        "value": "",
        "ability": []
    },
    "colortemperature": {
        "value": null,
        "ability": {"min":null, "step":null, "max":null}
    }
    "stillimagequality": {
        "value": {"jpeg":"","raw":""},
        "ability": {"jpeg":[], "raw":[]}
    },
    "wbshift": {
        "value": {"mg":null, "ba":null},
        "ability": {
            "mg": {"min":null, "step":null, "max":null},
            "ba": {"min":null, "step":null, "max":null}
        }
    }
}
```

## ■ Ver.1.1.0

### ■ GET

This gets all of the present values and ability values of the shooting parameters that can be acquired by Ver.1.1.0 APIs supported by the Canon camera.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/shooting/settings

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Of the following JSON Field items, the items supported by the API are returned.

For the data structure of each item, refer to the GET section of each item.

JSON Field	Data Type	Description
trackingsetting	object	Subject tracking
shuttermode	object	Shutter mode
stillimagequality	object	Image size
stillimagecompression_large	object	JPEG/HEIF image quality L
stillimagecompression_medium	object	JPEG/HEIF image quality M
stillimagecompression_medium1	object	JPEG/HEIF image quality M1
stillimagecompression_medium2	object	JPEG/HEIF image quality M2
stillimagecompression_small	object	JPEG/HEIF image quality S
stillimagecompression_small1	object	JPEG/HEIF image quality S1
stillimagecompression_small2	object	JPEG/HEIF image quality S2
hdr	object	HDR setting
antiflickershoot	object	Anti-flicker shoot
hfantiflickershoot	object	HF Anti-flicker shoot
hfflickerty	object	HF flicker TV
highframerate	object	High frame rate setting
moviecropping	object	Movie Cropping

**JSON example**

```
{
    "stillimagequality": {
        "value": {"raw": "none", "jpeg": "large"},
        "ability": {
            "raw": ["none", "raw", "craw"],
            "jpeg": ["none", "large", "medium1", "medium2", "small"]
        }
    },
    "stillimagecompression_large": {
        "value": 8,
        "ability": {"min": 1, "max": 10, "step": 1}
    },
    ...
}
```

}

---

## 4.9.2. Get / Change shooting mode (models with a shooting mode dial)

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/shootingmodedial`

#### ■ GET

This gets the shooting mode.

In case of a Canon camera that does not have a shooting mode dial, this API is not supported.

Check the Canon camera used.

### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/shootingmodedial`

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
value	string	Present value

#### Value of value

Name	Description
m	Manual exposure
av	Aperture priority AE
tv	Shutter speed priority
p	Program AE
auto	Auto
plus_movie_auto	Plus movie auto
panoramic_shot	Panoramic shot
sports	Sports
fv	Flexible AE
a+	Scene intelligent auto
scn	Special scene

creativefilter	Creative filter
movie	Movie
c3	Custom shooting mode 3
c2	Custom shooting mode 2
c1	Custom shooting mode 1
bulb	Bulb

**JSON example**

```
{
    "value": "program"
}
```

**■ PUT**

This changes the Shooting mode.

To change the shooting mode, you need to execute the following API in advance.

- Ignore shooting mode dial mode (/control/ignoreshootingmodedialmode)

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/shootingmodedial

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
    "value": "p"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
  "value": "p"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Ignore shooting mode dial mode ot started

**JSON example**

```
{  
    "message": "Device busy"  
}
```

### 4.9.3. Get / Change movie recording mode (models with a shooting mode dial)

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/shootingsmodedial/movie

#### ■ GET

This gets the movie recording mode.

In case of a Canon camera that does not have a shooting mode dial, this API is not supported.  
Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/shootingsmodedial/movie

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value

##### Value of value

Name	Description
auto	Movie auto exposure
video_blog	VideoBlog
manual	Movie auto exp.
hdr	HDR Movie

##### JSON example

```
{  
    "value": "auto"  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Mode not supported"
}
```

**■ PUT**

This changes the movie recording mode.

To change the movie recording mode, you need to execute the following API in advance.

- Ignore shooting mode dial mode (/control/ignoreshootingmodedialmode)

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/shootingmodedial/movie

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
    "value": "auto"
}
```

}
---

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

{       "value": "auto"     }
-------------------------------

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

{       "message": "Invalid parameter"     }
--

**Response 503****Headers**

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Ignore shooting mode dial mode or started

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.9.4. Get / Change shooting mode (models without a shooting mode dial)

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/shootingmode

##### ■ GET

This gets the shooting mode.

In case of a Canon camera that has a shooting mode dial, this API is not supported.  
Check the Canon camera used.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/shootingmode

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	string	Present value

###### Value of value

Name	Description
m	Manual exposure
av	Aperture priority AE
tv	Shutter priority AE
p	Program AE
fv	Flexible-priority AE
a+	Scene Intelligent Auto
c3	Custom shooting mode 3
c2	Custom shooting mode 2
c1	Custom shooting mode 1
bulb	Bulb

**JSON example**

```
{  
    "value": "p",  
    "ability": ["p", "av", "m", "tv", "bulb", "c1", "c2", "c3"]  
}
```

**■ PUT**

This changes the shooting mode.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/shootingmode

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{  
    "value": "p"  
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{  
    "value": "p"  
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- A value not present in ability is input.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.5. AV

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/av`

#### ■ GET

This gets the present value and ability values of the AV setting.

For the values that this API can take, check the AV value support situation of the Canon camera used.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/av`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### JSON example

```
{
  "value": "f4.0",
  "ability": ["f3.4", "f4.0", "f4.5", "f5.0", "f5.6", "f6.3", "f7.1", "f8.0"]
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the AV setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/av

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "f5.6"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description

value	string	Present value
-------	--------	---------------

**JSON example**

```
{
  "value": "f5.6"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.

During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.6. TV

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/tv`

#### ■ GET

This gets the present value and ability values of the TV setting.

For the values that this API can take, check the TV value support situation of the Canon camera used.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/tv`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### JSON example

```
{
    "value": "1¥/125",
    "ability": ["15¥\"", "13¥\"", "10¥\"", "8¥\"", "6¥\"", "5¥\"", "4¥\"", "3¥\"2", "2¥\"5", "2¥\"", "1¥\"6", "1¥\"3", "1¥\"", "0¥\"8", "0¥\"6", "0¥\"5", "0¥\"4", "0¥\"3", "1¥/4", "1¥/5", "1¥/6", "1¥/8", "1¥/10", "1¥/13", "1¥/15", "1¥/20", "1¥/25", "1¥/30", "1¥/40", "1¥/50", "1¥/60", "1¥/80", "1¥/100", "1¥/125", "1¥/160", "1¥/200", "1¥/250", "1¥/320", "1¥/400", "1¥/500", "1¥/640", "1¥/800", "1¥/1000", "1¥/1250", "1¥/1600", "1¥/2000"]
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description

message	string	Message
---------	--------	---------

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the TV setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/tv

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "5¥"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "5¥"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.7. ISO

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/iso

#### ■ GET

This gets the present value and ability values of the ISO setting.

For the values that this API can take, check the ISO value support situation of the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/iso

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### JSON example

```
{  
    "value": "100",  
    "ability": ["auto", "100", "125", "160", "200", "250", "320", "400", "500",  
    "640", "800", "1000", "1250", "1600", "2000", "2500", "3200"]  
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the ISO setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/iso

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "auto"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description

value	string	Present value
-------	--------	---------------

**JSON example**

```
{
    "value": "auto"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.

During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.8. Exposure compensation

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/exposure`

#### ■ GET

This gets the present value and ability values of the exposure compensation setting.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/exposure`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
-3.0	Exposure compensation -3.0
-2_2/3	Exposure compensation -2 2/3
-2_1/3	Exposure compensation -2 1/3
-2.0	Exposure compensation -2.0
-1_2/3	Exposure compensation -1 2/3
-1_1/3	Exposure compensation -1 1/3
-1.0	Exposure compensation -1.0
-0_2/3	Exposure compensation -0 2/3
-0_1/3	Exposure compensation -0 1/3
+0.0	Exposure compensation 0.0
+0_1/3	Exposure compensation +0 1/3
+0_2/3	Exposure compensation +0 2/3
+1.0	Exposure compensation +1.0

+1_1/3	Exposure compensation +1 1/3
+1_2/3	Exposure compensation +1 2/3
+2.0	Exposure compensation +2.0
+2_1/3	Exposure compensation +2 1/3
+2_2/3	Exposure compensation +2 2/3
+3.0	Exposure compensation +3.0

**JSON example**

```
{
  "value": "+0.0",
  "ability": ["-3.0", "-2_2¥/3", "-2_1¥/3", "-2.0", "-1_2¥/3", "-1_1¥/3", "-1.0", "-0_2¥/3", "-0_1¥/3", "+0.0", "+0_1¥/3", "+0_2¥/3", "+1.0", "+1_1¥/3", "+1_2¥/3", "+2.0", "+2_1¥/3", "+2_2¥/3", "+3.0"]
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the exposure compensation setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/exposure

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
    "value": "+2.0"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "+2.0"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value.

	- Nonexistent value - Non-string value - A value not present in ability is input.
--	---

**JSON example**

```
{  
    "message": "Invalid parameter"  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

### 4.9.9. White balance

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/wb

#### ■ GET

This gets the present value and ability values of the white balance setting.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/wb

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
auto	Auto: Ambience priority
awbwhite	Auto: White priority
daylight	Sunlight
shade	Shade
cloudy	Cloudy
tungsten	Incandescent light bulb
whitefluorescent	White fluorescent light
flash	Flash
custom	Custom
colortemp	Color temp.

##### JSON example

{ "value": "auto",
-----------------------

```

    "ability": ["auto", "daylight", "shade", "cloudy", "tungsten",
    "whitefluorescent", "flash", "custom"]
}

```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the white balance setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/wb

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

{
"value": "custom"
}

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

{
"value": "custom"
}

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

{
"message": "Invalid parameter"
}

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

{ "message": "Device busy" }
------------------------------------

## 4.9.10. Color temperature

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/colortemperature

#### ■ GET

This gets the present value and ability values of the color temperature setting.

In case of a Canon camera that does not support color temperature, this API is not supported.

Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/colortemperature

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	integer	Present value
ability	Object of range	Ability values

##### Object of range

JSON Field	Data Type	Description
min	integer	Minimum value
max	integer	Maximum value
step	integer	Step

##### JSON example

```
{  
    "value": 5200,  
    "ability": {  
        "min": 2500,  
        "max": 10000,  
        "step": 100  
    }  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the color temperature setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/colortemperature

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	integer	Setting value

**JSON example**

```
{
  "value": 4000
}
```

}
---

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	integer	Present value

**JSON example**

{ "value": 4000 }
-------------------------

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value below the ability minimum value is input.</li> <li>- A value that exceeds the ability maximum value is input.</li> <li>- A value that does not conform to the ability step is input.</li> </ul>

**JSON example**

{ "message": "Invalid parameter" }
--

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.11. AF operation

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/afoperation

#### ■ GET

This gets the present value of the AF operation setting.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/afoperation

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value

##### Value of value

Name	Description
oneshot	One-shot AF
servo	Servo AF
aifocus	AI Focus AF
manual	Manual focus

##### JSON example

```
{  
    "value": "oneshot",  
    "ability": ["oneshot", "servo"]  
}
```

**■ PUT**

This changes the AF operation setting

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/afoperation

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{  
    "value": "oneshot"  
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{  
    "value": "oneshot"  
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- A value not present in ability is input.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
  "message": "Device busy"
}
```

## 4.9.12. AF method

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/afmethod`

#### ■ GET

This gets the present value and ability values of the AF method setting.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/afmethod`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
face+tracking	Face tracking priority AF
spot	Single-point spot AF
1point	Single-point AF
expand_cross	Expanded area AF (up, down, left and right)
expand_around	Expanded area AF (surrounding)
zone	Zone AF
large_zone_vertical	Large Zone AF: Vertical
large_zone_horizontal	Large Zone AF: Horizontal
flexible_zone_1	Flexible Zone AF 1
flexible_zone_2	Flexible Zone AF 2
flexible_zone_3	Flexible Zone AF 3
whole_area	Whole area AF

**JSON example**

```
{
  "value": "face+tracking",
  "ability": ["face+tracking", "spot", "1point"]
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the AF method setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/afmethod

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description

value	string	Setting value
-------	--------	---------------

**JSON example**

```
{
  "value": "spot"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
  "value": "spot"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

{ "message": "Device busy" }
------------------------------------

### 4.9.13. Subject tracking

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/trackingsetting

#### ■ GET

This gets the present value and ability values of the Subject tracking.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/shooting/settings/trackingsetting

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
enable	Enabled
disable	Disabled

##### JSON example

```
{  
    "value": "enable",  
    "ability": ["enable", "disable"]  
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the Subject tracking setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver110/shooting/settings/trackingsetting

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "disable"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "disable"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.9.14. Shutter mode

##### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/shuttermode`

##### ■ GET

This gets the present value and ability values of the shutter mode setting.

##### Example URI

GET `http://192.168.1.2:8080/ccapi/ver110/shooting/settings/shuttermode`

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

###### Value of value

Name	Description
elec_1st_curtain	Elec. 1st-curtain
mechanical	Mechanical
electronic	Electronic

###### JSON example

```
{
  "value": "elec_1st_curtain",
  "ability": ["elec_1st_curtain", "mechanical", "electronic"]
}
```

##### Response 503

###### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
    "message": "Device busy"
}
```

**■ PUT**

This changes the shutter mode setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver110/shooting/settings/shuttermode

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting values

**JSON example**

```
{
    "value": "electronic"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present values

**JSON example**

```
{
    "value": "electronic"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.15. Still image shooting image quality

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/stillimagequality`

#### ■ Ver.1.0.0

#### ■ GET

This gets the present values and ability values of the still image shooting image quality setting.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/stillimagequality`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	Object of stillimagequality	Present values
ability	array [Object of stillimagequality]	Ability values

##### Object of stillimagequality

JSON Field	Data Type	Description
raw	string	RAW setting
jpeg	string	JPEG setting

##### Value of raw

Name	Description
none	None
raw	RAW
craw	CRAW

##### Value of jpeg

Name	Description
none	None

large_fine	JPEG image quality Large/Fine
large_normal	JPEG image quality Large/Normal
medium_fine	JPEG image quality Medium/Fine
medium_normal	JPEG image quality Medium/Normal
small	JPEG image quality Small

**JSON example**

```
{
  "value": {
    "raw": "none",
    "jpeg": "small"
  },
  "ability": {
    "raw": ["none", "raw", "craw"],
    "jpeg": ["none", "large_fine", "large_normal", "medium_fine", "medium_normal", "small"]
  }
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the still image shooting image quality setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/stillimagequality

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	Object of stillimagequality	Setting values

**JSON example**

```
{  
    "value": {  
        "raw": "none",  
        "jpeg": "small"  
    }  
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of stillimagequality	Present values

**JSON example**

```
{  
    "value": {  
        "raw": "none",  
        "jpeg": "small"  
    }  
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- The value is not a JSON object.</li> </ul> <p>raw is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- A value not present in ability is input.</li> </ul> <p>jpeg/heif is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- A value not present in ability is input.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.

During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ Ver.1.1.0****■ GET**

This gets the present values and ability values of the still image shooting image quality setting.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver110/shooting/settings/stillimagequality

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of stillimagequality	Present values
ability	array [Object of stillimagequality]	Ability values

**Object of stillimagequality**

JSON Field	Data Type	Description
raw	string	RAW setting
jpeg	string	JPEG setting
heif	string	HEIF setting

**Value of raw**

Name	Description
none	None

raw	RAW
craw	CRAW

**Value of jpeg/heif**

Name	Description
none	None
large_fine	JPEG/HEIF image quality Large/Fine
large_normal	JPEG/HEIF image quality Large/Normal
medium_fine	JPEG/HEIF image quality Medium/Fine
medium_normal	JPEG/HEIF image quality Medium/Normal
large	JPEG/HEIF image quality Large
medium	JPEG/HEIF image quality Medium
medium1	JPEG/HEIF image quality Medium 1
Medium2	JPEG/HEIF image quality Medium 2
small	JPEG/HEIF image quality Small
small1	JPEG/HEIF image quality Small 1
small1_fine	JPEG/HEIF image quality Small 1/Fine
small1_normal	JPEG/HEIF image quality Small 1/ Normal
small2	JPEG/HEIF image quality Small 2

**JSON example**

```
{
  "value": {
    "raw": "none",
    "heif": "small"
  },
  "ability": {
    "raw": ["none", "raw", "craw"],
    "heif": ["none", "large_fine", "large_normal", "medium_fine", "medium_normal", "small"]
  }
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description

message	string	Message
---------	--------	---------

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the still image shooting image quality setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver110/shooting/settings/stillimagequality

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	Object of stillimagequality	Setting values

**JSON example**

```
{
  "value": {
    "raw": "none",
    "heif": "small"
  }
}
```

**Response 200****Headers**

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

JSON Field	Data Type	Description
value	Object of stillimagequality	Present values

**JSON example**

```
{
  "value": {
    "raw": "none",
    "heif": "small"
  }
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- The value is not a JSON object.</li> </ul> <p>raw is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- A value not present in ability is input.</li> </ul> <p>jpeg is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- A value not present in ability is input.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.9.16. Still image compression ratio

##### URI

L

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/stillimagecompression/large

M

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/stillimagecompression/medium

M1

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/stillimagecompression/medium1

M2

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/stillimagecompression/medium2

S

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/stillimagecompression/small

S1

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/stillimagecompression/small1

S2

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/stillimagecompression/small2

##### ■ GET

This gets the present value and ability values of the still image compression ratio.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/shooting/settings/stillimagecompression/large

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	integer	Present values
ability	Object of stillimagecompression	Ability values

	range	
--	-------	--

**Object of range**

JSON Field	Data Type	Description
min	integer	Minimum value
max	integer	Maximum value
step	integer	Step

**JSON example**

```
{
  "value":8,
  "ability": {"min":1,"max":10,"step":1}
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the still image shooting image quality setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver110/shooting/settings/stillimagecompression/large

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	integer	Setting values

**JSON example**

```
{
    "value":5
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of stillimagequality	Present values

**JSON example**

```
{
    "value":5
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description

Invalid parameter	value is an illegal value. - Nonexistent value - The value is not a JSON object.
-------------------	--

**JSON example**

```
{  
    "message": "Invalid parameter"  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.17. HDR setting

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/hdr`

#### ■ GET

This gets the present value and ability values of the HDR setting.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver110/shooting/settings/hdr`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present values
ability	array [string]	Ability values

##### Value of value

Name	Description
pq	PQ method
off	none

##### JSON example

<pre>{   "value": "pq",   "ability": ["pq", "off"] }</pre>
--

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.( EOS-1D X Mark III)

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the HDR setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver110/shooting/settings/hdr

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting values

**JSON example**

```
{
  "value": "pq"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present values

**JSON example**

```
{
    "value": "pq"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress. (EOS-1D X Mark III)

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.18. Still image aspect ratio

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/stillimageaspectratio`

#### ■ GET

This gets the present value and ability values of the still image aspect ratio setting.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/stillimageaspectratio`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
3:2	Aspect ratio 3:2
x1.6	x1.6 (cropped)
4:3	Aspect ratio 4:3
16:9	Aspect ratio 16:9
1:1	Aspect ratio 1:1

##### JSON example

```
{
  "value": "4:3",
  "ability": ["3:2", "4:3", "16:9", "1:1"]
}
```

#### Response 503

##### Headers

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the still image aspect ratio.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/stillimageaspectratio

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "4:3"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "4:3"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.19. Flash

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/flash`

#### ■ GET

This gets the present value and ability values of the flash setting.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/flash`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
auto	Flash auto
on	Flash on
slowsynchro	Slow Synchro
off	Flash off

##### JSON example

```
{
  "value": "on",
  "ability": ["auto", "on", "slowsynchro", "off"]
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the flash setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/flash

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "off"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "off"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.20. Metering mode

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/metering`

#### ■ GET

This gets the present value and ability values of the metering mode setting.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/metering`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
evaluative	Evaluative metering
partial	Partial metering
spot	Spot metering
center_weighted_average	Center-weighted average metering

##### JSON example

```
{
  "value": "evaluative",
  "ability": ["evaluative", "spot", "center_weighted_average"]
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the metering mode setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/metering

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "spot"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "spot"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.21. Continuous shooting mode

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/drive`

#### ■ GET

This gets the present value and ability values of the continuous shooting mode setting.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/drive`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
single	Single shooting
cont_super_hi	High speed continuous +
highspeed	High speed continuous
customhighspeedcont	Custom high speed continuous
continuous	Medium speed continuous
lowspeed	Low speed continuous
silent	Single Soft shooting
silent_single	Soft contin shooting
silent_continuous	Soft LS continuous
self_10sec	Self-timer:10 sec
self_2sec	Self-timer:2 sec
self_continuous	Self-timer:Continuous

**JSON example**

```
{
  "value": "single",
  "ability": ["single", "highspeed", "lowspeed", "self_10sec", "self_2sec",
  "self_continuous"]
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the continuous shooting mode setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/drive

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
    "value": "highspeed"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "highspeed"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{  
    "message": "Invalid parameter"  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.22. Custom high speed continuous (shooting speed)

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/drive/customhighspeedcont/shootingspeed

#### ■ GET

This gets the present value and ability values of the Custom high speed continuous (shooting speed).

#### Example URI

GET

http://192.168.1.2:8080/ccapi/ver100/shooting/settings/drive/customhighspeedcont/shootingspeed

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	integer	Present value
ability	array [integer]	Ability values

##### JSON example

```
{  
    "value":200,  
    "ability":[30, 40, 50, 60, 80, 100, 120, 150, 180, 200]  
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
message	string	Message

**Message description**

<b>Message</b>	<b>Description</b>
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the Custom high speed continuous (shooting speed).

**Example URI**

PUT

http://192.168.1.2:8080/ccapi/ver100/shooting/settings/drive/customhighspeedcont/shootingspeed

**Request****Headers**

<b>Header Field</b>	<b>Value</b>
Content-Type	application/json

**Body**

<b>Field</b>	<b>Data Type</b>	<b>Description</b>
value	integer	Setting value

**JSON example**

```
{
  "value": 100
}
```

**Response 200****Headers**

<b>Header Field</b>	<b>Value</b>
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": 100
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-integer value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

### 4.9.23. Custom high speed continuous (number of shots)

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/drive/customhighspeedcont/numberofshots

#### ■ GET

This gets the present value and ability values of the Custom high speed continuous (number of shots).

#### Example URI

GET

http://192.168.1.2:8080/ccapi/ver100/shooting/settings/drive/customhighspeedcont/numberofshots

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	integer	Present value
ability	array [integer]	Ability values

##### JSON example

```
{  
    "value":50,  
    "ability":[2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26  
    , 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50]  
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the Custom high speed continuous (shooting speed).

**Example URI**

PUT

http://192.168.1.2:8080/ccapi/ver100/shooting/settings/drive/customhighspeedcont/numberofshots

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	integer	Setting value

**JSON example**

```
{
  "value": 50
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value":50
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-integer value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.24. Exposure bracket

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/aeb`

#### ■ GET

This gets the present value and ability values of the exposure bracket setting.

For the values that this API can take, check the exposure bracket value support situation of the Canon camera used.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/aeb`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
+0.0	Exposure bracket value +0.0
+0_1/3	Exposure bracket value +0 1/3
+0_2/3	Exposure bracket value +0 2/3
+1.0	Exposure bracket value +1.0
+1_1/3	Exposure bracket value +1 1/3
+1_2/3	Exposure bracket value +1 2/3
+2.0	Exposure bracket value +2.0

##### JSON example

```
{
    "value": "+0.0",
    "ability": ["+0.0", "+0_1¥/3", "+0_2¥/3", "+1.0", "+1_1¥/3", "+1_2¥/3",
    "+2.0"]
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the exposure bracket setting.

When this is set to other than +0.0, shooting must be executed three times in succession, or it will no longer be possible to operate the Canon camera. Be sure to execute shooting three times.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/aeb

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{  
    "value": "+2.0"  
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{  
    "value": "+2.0"  
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{  
    "message": "Invalid parameter"  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.25. WB shift

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/wbshift`

#### ■ GET

This gets the present values and ability values of the WB shift setting.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/wbshift`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	Object of wbshift	Present values
ability	Object of wbshift range	Ability values

##### Object of wbshift

JSON Field	Data Type	Description
ba	integer	White balance shift (BA)
mg	integer	White balance shift (GM)

##### Object of wbshift range

JSON Field	Data Type	Description
ba	Object of range	White balance shift (BA)
mg	Object of range	White balance shift (GM)

##### Object of range

JSON Field	Data Type	Description
min	integer	Minimum value
max	integer	Maximum value
step	integer	Step

**JSON example**

```
{
  "value": {
    "ba": 0,
    "mg": 0
  },
  "ability": {
    "ba": {
      "min": -9,
      "max": 9,
      "step": 1
    },
    "mg": {
      "min": -9,
      "max": 9,
      "step": 1
    }
  }
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the WB shift setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/wbshift

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	Object of wbshift	Setting values

**JSON example**

```
{  
    "value": {  
        "ba": 9,  
        "mg": -9  
    }  
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of wbshift	Present values

**JSON example**

```
{  
    "value": {  
        "ba": 9,  
        "mg": -9  
    }  
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- The value is not a JSON object.</li> <li>ba or mg is an illegal value.</li> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value below the ability minimum value is input.</li> <li>- A value that exceeds the ability maximum value is input.</li> <li>- A value that does not conform to the ability step is input.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.26. WB bracket

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/wbbracket`

#### ■ GET

This gets the present value and ability values of the WB bracket setting.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/wbbracket`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
0	$\pm 0$
ba1	BA $\pm 1$
ba2	BA $\pm 2$
ba3	BA $\pm 3$
mg1	MG $\pm 1$
mg2	MG $\pm 2$
mg3	MG $\pm 3$

##### JSON example

<pre>{   "value": "0",   "ability": ["0", "ba1", "ba2", "ba3", "mg1", "mg2", "mg3"] }</pre>
---

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the WB bracket setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/wbbracket

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "ba1"
}
```

}
---

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

{ "value": "ba1" }
--------------------------

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

{ "message": "Invalid parameter" }
--

**Response 503****Headers**

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.27. Color space

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/colorspace

#### ■ GET

This gets the present value and ability values of the color space setting.

In case of an interchangeable lens type Canon camera, this API is not supported. Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/colorspace

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
srgb	sRGB
adobe_rgb	Adobe RGB

##### JSON example

```
{  
    "value": "srgb",  
    "ability": ["srgb", "adobe_rgb"]  
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the color space setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/colorspace

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "srgb"
}
```

**Response 200****Headers**

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "srgb"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.9.28. Picture style kind

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/picturestyle

##### ■ GET

This gets the present value and ability values of the picture style kind setting.

In case of a Canon camera that does not support picture style, this API is not supported. Check the Canon camera used.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

###### Value of value

Name	Description
auto	Auto
standard	Standard
portrait	Portrait
landscape	Landscape
finedetail	Emphasis on detail
neutral	Neutral
faithful	Faithful
monochrome	Monochrome
userdef1	User setting 1
userdef2	User setting 2
userdef3	User setting 3

**JSON example**

```
{
    "value": "auto",
    "ability": ["auto", "standard", "portrait", "landscape", "finedetail",
    "neutral", "faithful", "monochrome", "userdef1", "userdef2", "userdef3"]
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

**■ PUT**

This changes the picture style kind setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description

value	string	Setting value
-------	--------	---------------

**JSON example**

```
{
    "value": "auto"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "auto"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.29. Picture style (auto)

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/picturestyle/auto`

#### ■ GET

This gets the present values and ability values of the detailed parameters for picture style (auto).

In case of a Canon camera that does not support picture style, this API is not supported. Check the Canon camera used.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/auto`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	Object of auto	Present values
ability	Object of auto range	Ability values

##### Object of auto

JSON Field	Data Type	Description
sharpness_strength	integer	Sharpness (strength)
sharpness_fineness	integer	Sharpness (fineness)
sharpness_threshold	integer	Sharpness (threshold)
contrast	integer	Contrast
saturation	integer	Color saturation
colortone	integer	Color tone

##### Object of auto range

JSON Field	Data Type	Description
sharpness_strength	Object of range	Sharpness (strength)
sharpness_fineness	Object of range	Sharpness (fineness)

sharpness_threshold	Object of range	Sharpness (threshold)
contrast	Object of range	Contrast
saturation	Object of range	Color saturation
colortone	Object of range	Color tone

**Object of range**

JSON Field	Data Type	Description
min	integer	Minimum value
max	integer	Maximum value
step	integer	Step

**JSON example**

```
{
    "value": {
        "sharpness_strength": 4,
        "sharpness_fineness": 2,
        "sharpness_threshold": 4,
        "contrast": 0,
        "saturation": 0,
        "colortone": 0
    },
    "ability": {
        "sharpness_strength": {
            "min": 0,
            "max": 7,
            "step": 1
        },
        "sharpness_fineness": {
            "min": 1,
            "max": 5,
            "step": 1
        },
        "sharpness_threshold": {
            "min": 1,
            "max": 5,
            "step": 1
        },
        "contrast": {
            "min": -4,
            "max": 4,
            "step": 1
        },
        "saturation": {
            "min": -4,
            "max": 4,
            "step": 1
        },
        "colortone": {
            "min": -4,
            "max": 4,
            "step": 1
        }
    }
}
```

```

        "max": 4,
        "step": 1
    }
}

```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

**■ PUT**

This changes the detailed parameters for picture style (auto).

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/auto

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description

value	Object of auto	Setting values
-------	----------------	----------------

**JSON example**

```
{
  "value": {
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of auto	Present values

**JSON example**

```
{
  "value": {
    "sharpness": 4,
    "fineness": 2,
    "threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- The value is not a JSON object.</li> <li>sharpness_strength, sharpness_fineness, sharpness_threshold, contrast, saturation, or colortone is an illegal value.</li> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value below the ability minimum value is input.</li> <li>- A value that exceeds the ability maximum value is input.</li> <li>- A value that does not conform to the ability step is input.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

**■ DELETE**

This initializes the detailed parameters for picture style (auto).

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/auto

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of auto	Defaults

**JSON example**

```
{  
    "value": {  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "saturation": 0,  
        "colortone": 0  
    }  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

### 4.9.30. Picture style (standard)

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/picturestyle/standard

#### ■ GET

This gets the present values and ability values of the detailed parameters for picture style (standard).

In case of a Canon camera that does not support picture style, this API is not supported. Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/standard

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	Object of auto	Present values
ability	Object of auto range	Ability values

Refer to “Object of auto” and “Object of auto range” of “Picture style (auto)” for the JSON data structures.

##### JSON example

```
{  
    "value": {  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "saturation": 0,  
        "colortone": 0  
    },  
    "ability": {  
        "sharpness_strength": {  
            "min": 0,  
            "max": 7,  
            "step": 1  
        }  
    }  
}
```

```

},
"sharpness_fineness": {
    "min": 1,
    "max": 5,
    "step": 1
},
"sharpness_threshold": {
    "min": 1,
    "max": 5,
    "step": 1
},
"contrast": {
    "min": -4,
    "max": 4,
    "step": 1
},
"saturation": {
    "min": -4,
    "max": 4,
    "step": 1
},
"colortone": {
    "min": -4,
    "max": 4,
    "step": 1
}
}
}

```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

```
}
```

## ■ PUT

This changes the detailed parameters for picture style (standard).

### Example URI

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/standard

### Request

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

Field	Data Type	Description
value	Object of auto	Setting values

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

### JSON example

```
{
  "value": {
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
value	Object of auto	Present values

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

**JSON example**

```
{
  "value": {
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- The value is not a JSON object.</li> </ul> <p>sharpness_strength, sharpness_fineness, sharpness_threshold, contrast, saturation, or colortone is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value below the ability minimum value is input.</li> <li>- A value that exceeds the ability maximum value is input.</li> <li>- A value that does not conform to the ability step is input.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This initializes the detailed parameters for picture style (standard).

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/standard

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of auto	Defaults

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

#### JSON example

```
{  
    "value": {  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "saturation": 0,  
        "colortone": 0  
    }  
}
```

### Response 503

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
message	string	Message

#### Message description

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

#### JSON example

```
{  
    "message": "Device busy"  
}
```

### 4.9.31. Picture style (portrait)

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/picturestyle/portrait

#### ■ GET

This gets the present values and ability values of the detailed parameters for picture style (portrait).

In case of a Canon camera that does not support picture style, this API is not supported. Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/portrait

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	Object of auto	Present values
ability	Object of auto range	Ability values

Refer to “Object of auto” and “Object of auto range” of “Picture style (auto)” for the JSON data structures.

##### JSON example

```
{  
    "value": {  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "saturation": 0,  
        "colortone": 0  
    },  
    "ability": {  
        "sharpness_strength": {  
            "min": 0,  
            "max": 7,  
            "step": 1  
        }  
    }  
}
```

```

},
"sharpness_fineness": {
    "min": 1,
    "max": 5,
    "step": 1
},
"sharpness_threshold": {
    "min": 1,
    "max": 5,
    "step": 1
},
"contrast": {
    "min": -4,
    "max": 4,
    "step": 1
},
"saturation": {
    "min": -4,
    "max": 4,
    "step": 1
},
"colortone": {
    "min": -4,
    "max": 4,
    "step": 1
}
}
}

```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

```
}
```

## ■ PUT

This changes the detailed parameters for picture style (portrait).

### Example URI

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/portrait

### Request

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

Field	Data Type	Description
value	Object of auto	Setting values

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

### JSON example

```
{
  "value": {
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
value	Object of auto	Present values

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

**JSON example**

```
{
  "value": {
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- The value is not a JSON object.</li> </ul> <p>sharpness_strength, sharpness_fineness, sharpness_threshold, contrast, saturation, or colortone is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value below the ability minimum value is input.</li> <li>- A value that exceeds the ability maximum value is input.</li> <li>- A value that does not conform to the ability step is input.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This initializes the detailed parameters for picture style (portrait).

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/portrait

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of auto	Defaults

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

#### JSON example

```
{  
    "value": {  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "saturation": 0,  
        "colortone": 0  
    }  
}
```

### Response 503

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
message	string	Message

#### Message description

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

#### JSON example

```
{  
    "message": "Device busy"  
}
```

### 4.9.32. Picture style (landscape)

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/picturestyle/landscape

#### ■ GET

This gets the present values and ability values of the detailed parameters for picture style (landscape).

In case of a Canon camera that does not support picture style, this API is not supported. Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/landscape

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	Object of auto	Present values
ability	Object of auto range	Ability values

Refer to “Object of auto” and “Object of auto range” of “Picture style (auto)” for the JSON data structures.

##### JSON example

```
{  
    "value": {  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "saturation": 0,  
        "colortone": 0  
    },  
    "ability": {  
        "sharpness_strength": {  
            "min": 0,  
            "max": 7,  
            "step": 1  
        }  
    }  
}
```

```

},
"sharpness_fineness": {
    "min": 1,
    "max": 5,
    "step": 1
},
"sharpness_threshold": {
    "min": 1,
    "max": 5,
    "step": 1
},
"contrast": {
    "min": -4,
    "max": 4,
    "step": 1
},
"saturation": {
    "min": -4,
    "max": 4,
    "step": 1
},
"colortone": {
    "min": -4,
    "max": 4,
    "step": 1
}
}
}

```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

}
---

## ■ PUT

This changes the detailed parameters for picture style (landscape).

### Example URI

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/landscape

### Request

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

Field	Data Type	Description
value	Object of auto	Setting values

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

#### JSON example

```
{
  "value": {
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
value	Object of auto	Present values

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

**JSON example**

```
{
  "value": {
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- The value is not a JSON object.</li> </ul> <p>sharpness_strength, sharpness_fineness, sharpness_threshold, contrast, saturation, or colortone is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value below the ability minimum value is input.</li> <li>- A value that exceeds the ability maximum value is input.</li> <li>- A value that does not conform to the ability step is input.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This initializes the detailed parameters for picture style (landscape).

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/landscape

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of auto	Defaults

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

#### JSON example

```
{  
    "value": {  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "saturation": 0,  
        "colortone": 0  
    }  
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
message	string	Message

##### Message description

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

#### JSON example

```
{  
    "message": "Device busy"  
}
```

### 4.9.33. Picture style (finedetail)

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/picturestyle/finedetail

#### ■ GET

This gets the present values and ability values of the detailed parameters for picture style (finedetail).

In case of a Canon camera that does not support picture style, this API is not supported. Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/finedetail

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	Object of auto	Present values
ability	Object of auto range	Ability values

Refer to “Object of auto” and “Object of auto range” of “Picture style (auto)” for the JSON data structures.

##### JSON example

```
{  
    "value": {  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "saturation": 0,  
        "colortone": 0  
    },  
    "ability": {  
        "sharpness_strength": {  
            "min": 0,  
            "max": 7,  
            "step": 1  
        }  
    }  
}
```

```

},
"sharpness_fineness": {
    "min": 1,
    "max": 5,
    "step": 1
},
"sharpness_threshold": {
    "min": 1,
    "max": 5,
    "step": 1
},
"contrast": {
    "min": -4,
    "max": 4,
    "step": 1
},
"saturation": {
    "min": -4,
    "max": 4,
    "step": 1
},
"colortone": {
    "min": -4,
    "max": 4,
    "step": 1
}
}
}

```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

```
}
```

## ■ PUT

This changes the detailed parameters for picture style (finedetail).

### Example URI

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/finedetail

### Request

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

Field	Data Type	Description
value	Object of auto	Setting values

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

#### JSON example

```
{
  "value": {
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
value	Object of auto	Present values

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

**JSON example**

```
{
  "value": {
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- The value is not a JSON object.</li> </ul> <p>sharpness_strength, sharpness_fineness, sharpness_threshold, contrast, saturation, or colortone is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value below the ability minimum value is input.</li> <li>- A value that exceeds the ability maximum value is input.</li> <li>- A value that does not conform to the ability step is input.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This initializes the detailed parameters for picture style (finedetail).

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/finedetail

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of auto	Defaults

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

#### JSON example

```
{  
    "value": {  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "saturation": 0,  
        "colortone": 0  
    }  
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
message	string	Message

##### Message description

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

#### JSON example

```
{  
    "message": "Device busy"  
}
```

#### 4.9.34. Picture style (neutral)

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/picturestyle/neutral

##### ■ GET

This gets the present values and ability values of the detailed parameters for picture style (neutral).

In case of a Canon camera that does not support picture style, this API is not supported. Check the Canon camera used.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/neutral

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	Object of auto	Present values
ability	Object of auto range	Ability values

Refer to “Object of auto” and “Object of auto range” of “Picture style (auto)” for the JSON data structures.

###### JSON example

```
{  
    "value": {  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "saturation": 0,  
        "colortone": 0  
    },  
    "ability": {  
        "sharpness_strength": {  
            "min": 0,  
            "max": 7,  
            "step": 1  
        }  
    }  
}
```

```

},
"sharpness_fineness": {
    "min": 1,
    "max": 5,
    "step": 1
},
"sharpness_threshold": {
    "min": 1,
    "max": 5,
    "step": 1
},
"contrast": {
    "min": -4,
    "max": 4,
    "step": 1
},
"saturation": {
    "min": -4,
    "max": 4,
    "step": 1
},
"colortone": {
    "min": -4,
    "max": 4,
    "step": 1
}
}
}

```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

```
}
```

## ■ PUT

This changes the detailed parameters for picture style (neutral).

### Example URI

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/neutral

### Request

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

Field	Data Type	Description
value	Object of auto	Setting values

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

### JSON example

```
{
  "value": {
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
value	Object of auto	Present values

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

**JSON example**

```
{
  "value": {
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- The value is not a JSON object.</li> </ul> <p>sharpness_strength, sharpness_fineness, sharpness_threshold, contrast, saturation, or colortone is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value below the ability minimum value is input.</li> <li>- A value that exceeds the ability maximum value is input.</li> <li>- A value that does not conform to the ability step is input.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This initializes the detailed parameters for picture style (neutral).

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/neutral

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of auto	Defaults

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

#### JSON example

```
{  
    "value": {  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "saturation": 0,  
        "colortone": 0  
    }  
}
```

### Response 503

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
message	string	Message

#### Message description

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

#### JSON example

```
{  
    "message": "Device busy"  
}
```

### 4.9.35. Picture style (faithful)

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/picturestyle/faithful

#### ■ GET

This gets the present values and ability values of the detailed parameters for picture style (faithful).

In case of a Canon camera that does not support picture style, this API is not supported. Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/faithful

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	Object of auto	Present values
ability	Object of auto range	Ability values

Refer to “Object of auto” and “Object of auto range” of “Picture style (auto)” for the JSON data structures.

##### JSON example

```
{  
    "value": {  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "saturation": 0,  
        "colortone": 0  
    },  
    "ability": {  
        "sharpness_strength": {  
            "min": 0,  
            "max": 7,  
            "step": 1  
        }  
    }  
}
```

```

},
"sharpness_fineness": {
    "min": 1,
    "max": 5,
    "step": 1
},
"sharpness_threshold": {
    "min": 1,
    "max": 5,
    "step": 1
},
"contrast": {
    "min": -4,
    "max": 4,
    "step": 1
},
"saturation": {
    "min": -4,
    "max": 4,
    "step": 1
},
"colortone": {
    "min": -4,
    "max": 4,
    "step": 1
}
}
}
}

```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

```
}
```

## ■ PUT

This changes the detailed parameters for picture style (faithful).

### Example URI

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/faithful

### Request

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

Field	Data Type	Description
value	Object of auto	Setting values

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

#### JSON example

```
{
  "value": {
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
value	Object of auto	Present values

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

**JSON example**

```
{
  "value": {
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- The value is not a JSON object.</li> </ul> <p>sharpness_strength, sharpness_fineness, sharpness_threshold, contrast, saturation, or colortone is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value below the ability minimum value is input.</li> <li>- A value that exceeds the ability maximum value is input.</li> <li>- A value that does not conform to the ability step is input.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ DELETE**

This initializes the detailed parameters for picture style (faithful).

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/faithful

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of auto	Defaults

Refer to “Object of auto” of “Picture style (auto)” for the JSON data structure.

#### JSON example

```
{  
    "value": {  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "saturation": 0,  
        "colortone": 0  
    }  
}
```

### Response 503

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
message	string	Message

#### Message description

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

#### JSON example

```
{  
    "message": "Device busy"  
}
```

### 4.9.36. Picture style (monochrome)

#### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/picturestyle/monochrome`

#### ■ GET

This gets the present values and ability value of the detailed parameters for picture style (monochrome).

In case of a Canon camera that does not support picture style, this API is not supported. Check the Canon camera used.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/monochrome`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	Object of monochrome	Present values
ability	Object of monochrome ability	Ability values

##### Object of monochrome

JSON Field	Data Type	Description
sharpness_strength	integer	Sharpness (strength)
sharpness_fineness	integer	Sharpness (fineness)
sharpness_threshold	integer	Sharpness (threshold)
contrast	integer	Contrast
filtereffect	string	Filter effect
toningeffect	string	Toning

##### Value of filtereffect

Name	Description
none	None
yellow	Yellow

orange	Orange
red	Red
green	Green

**Value of toningeffect**

Name	Description
none	None
sepia	Sepia
blue	Blue
purple	Purple
green	Green

**Object of monochrome ability**

JSON Field	Data Type	Description
sharpness_strength	Object of range	Sharpness (strength)
sharpness_fineness	Object of range	Sharpness (fineness)
sharpness_threshold	Object of range	Sharpness (threshold)
contrast	Object of range	Contrast
filtereffect	array [string]	Filter effect
toningeffect	array [string]	Toning

**Object of range**

JSON Field	Data Type	Description
min	integer	Minimum value
max	integer	Maximum value
step	integer	Step

**JSON example**

```
{
  "value": {
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "filtereffect": "none",
    "toningeffect": "none"
  },
  "ability": {
    "sharpness_strength": {
      "min": 0,
      "max": 100,
      "step": 1
    }
  }
}
```

```

        "max": 7,
        "step": 1
    },
    "sharpness_fineness": {
        "min": 1,
        "max": 5,
        "step": 1
    },
    "sharpness_threshold": {
        "min": 1,
        "max": 5,
        "step": 1
    },
    "contrast": {
        "min": -4,
        "max": 4,
        "step": 1
    },
    "filtereffect": ["none", "yellow", "orange", "red", "green"],
    "toningeffect": ["none", "sepia", "blue", "purple", "green"]
}
}

```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

**■ PUT**

This changes the detailed parameters for picture style (monochrome).

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/monochrome

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	Object of monochrome	Setting values

**JSON example**

```
{  
    "value": {  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "filtereffect": "none",  
        "toningeffect": "none"  
    }  
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of monochrome	Present values

**JSON example**

```
{  
    "value": {  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "filtereffect": "none",  
        "toningeffect": "none"  
    }  
}
```

```

    }
}

```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- The value is not a JSON object.</li> </ul> <p>sharpness_strength, sharpness_fineness, sharpness_threshold, or contrast is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value below the ability minimum value is input.</li> <li>- A value that exceeds the ability maximum value is input.</li> <li>- A value that does not conform to the ability step is input.</li> </ul> <p>filtereffect or toningeffect is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> </ul> <p>A value not present in ability is input.</p>

**JSON example**

```

{
  "message": "Invalid parameter"
}

```

**Response 503****Headers**

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

**■ DELETE**

This initializes the detailed parameters for picture style (monochrome).

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/monochrome

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of monochrome	Defaults

**JSON example**

```
{
    "value": {
        "sharpness_strength": 4,
        "sharpness_fineness": 2,
        "sharpness_threshold": 4,
    }
}
```

```
        "contrast": 0,  
        "filtereffect": "none",  
        "toningeffect": "none"  
    }  
}
```

### Response 503

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
message	string	Message

#### Message description

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

#### JSON example

```
{  
    "message": "Device busy"  
}
```

### 4.9.37. Picture style (userdef1)

#### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/picturestyle/userdef1`

#### ■ GET

This gets the present values and ability values of the detailed parameters for picture style (userdef1).

In case of a Canon camera that does not support picture style, this API is not supported. Check the Canon camera used.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/userdef1`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	Object of userdef	Present values
ability	Object of userdef ability	Ability values

##### Object of userdef

- When basepicturestyle is other than monochrome

JSON Field	Data Type	Description
basepicturestyle	string	Base picture style
sharpness_strength	integer	Sharpness (strength)
sharpness_fineness	integer	Sharpness (fineness)
sharpness_threshold	integer	Sharpness (threshold)
contrast	integer	Contrast
saturation	integer	Color saturation
colortone	integer	Color tone

- When basepicturestyle is monochrome

JSON Field	Data Type	Description

basepicturestyle	string	Base picture style
sharpness_strength	integer	Sharpness (strength)
sharpness_fineness	integer	Sharpness (fineness)
sharpness_threshold	integer	Sharpness (threshold)
contrast	integer	Contrast
filtereffect	string	Filter effect
toningeffect	string	Toning

**Value of filtereffect**

Name	Description
none	None
yellow	Yellow
orange	Orange
red	Red
green	Green

**Value of toningeffect**

Name	Description
none	None
sepia	Sepia
blue	Blue
purple	Purple
green	Green

**Object of userdef ability**

- When basepicturestyle is other than monochrome

JSON Field	Data Type	Description
basepicturestyle	array [string]	Base picture style
sharpness_strength	Object of range	Sharpness (strength)
sharpness_fineness	Object of range	Sharpness (fineness)
sharpness_threshold	Object of range	Sharpness (threshold)
contrast	Object of range	Contrast
saturation	Object of range	Color saturation
colortone	Object of range	Color tone

- When basepicturestyle is monochrome

JSON Field	Data Type	Description
basepicturestyle	array [string]	Base picture style
sharpness_strength	Object of range	Sharpness (strength)
sharpness_fineness	Object of range	Sharpness (fineness)
sharpness_threshold	Object of range	Sharpness (threshold)
contrast	Object of range	Contrast
filtereffect	array [string]	Filter effect
toningeffect	array [string]	Toning

**Object of range**

JSON Field	Data Type	Description
min	integer	Minimum value
max	integer	Maximum value
step	integer	Step

**JSON example**

```
{
  "value": {
    "basepicturestyle": "auto",
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  },
  "ability": {
    "basepicturestyle": [],
    "sharpness_strength": {
      "min": 0,
      "max": 7,
      "step": 1
    },
    "sharpness_fineness": {
      "min": 1,
      "max": 5,
      "step": 1
    },
    "sharpness_threshold": {
      "min": 1,
      "max": 5,
      "step": 1
    },
    "contrast": {
      "min": -4,
      "max": 4,
      "step": 1
    }
  }
}
```

```

        "step": 1
    },
    "saturation": {
        "min": -4,
        "max": 4,
        "step": 1
    },
    "colortone": {
        "min": -4,
        "max": 4,
        "step": 1
    }
}
]
}

```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

**■ PUT**

This changes the detailed parameters for picture style (userdef1).

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/userdef1

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	Object of userdef	Setting values

**JSON example**

```
{
  "value": {
    "basepicturestyle": "auto",
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of userdef	Present values

**JSON example**

```
{
  "value": {
    "basepicturestyle": "auto",
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- The value is not a JSON object.</li> </ul> <p>sharpness_strength, sharpness_fineness, sharpness_threshold, or contrast is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value below the ability minimum value is input.</li> <li>- A value that exceeds the ability maximum value is input.</li> <li>- A value that does not conform to the ability step is input.</li> </ul> <p>[When basepicturestyle is other than monochrome]</p> <p>saturation or colortone is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value below the ability minimum value is input.</li> <li>- A value that exceeds the ability maximum value is input.</li> <li>- A value that does not conform to the ability step is input.</li> </ul> <p>[When basepicturestyle is monochrome]</p> <p>filtereffect or toningeffect is an illegal value.</p>

	<ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- A value not present in ability is input.</li> </ul>
--	---

**JSON example**

{       "message": "Invalid parameter"     }
--

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

{       "message": "Device busy"     }
--

**■ DELETE**

This initializes the detailed parameters for picture style (userdef1).

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/userdef1

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of userdef	Defaults

**JSON example**

```
{
  "value": {
    "basepicturestyle": "auto",
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
```

}

---

### 4.9.38. Picture style (userdef2)

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/picturestyle/userdef2

#### ■ GET

This gets the present values and ability values of the detailed parameters for picture style (userdef2).

In case of a Canon camera that does not support picture style, this API is not supported. Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/userdef2

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	Object of userdef	Present values
ability	Object of userdef ability	Ability values

Refer to “Object of userdef” and “Object of userdef ability” of “Picture style (userdef1)” for the JSON data structures.

##### JSON example

```
{  
    "value": {  
        "basepicturestyle": "auto",  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "saturation": 0,  
        "colortone": 0  
    },  
    "ability": {  
        "basepicturestyle": [],  
        "sharpness_strength": {  
            "min": 0,  
            "max": 100  
        }  
    }  
}
```

```

        "max": 7,
        "step": 1
    },
    "sharpness_fineness": {
        "min": 1,
        "max": 5,
        "step": 1
    },
    "sharpness_threshold": {
        "min": 1,
        "max": 5,
        "step": 1
    },
    "contrast": {
        "min": -4,
        "max": 4,
        "step": 1
    },
    "saturation": {
        "min": -4,
        "max": 4,
        "step": 1
    },
    "colortone": {
        "min": -4,
        "max": 4,
        "step": 1
    }
}
}
}

```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
    "message": "Device busy"
}
```

**■ PUT**

This changes the detailed parameters for picture style (userdef2).

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/userdef2

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	Object of userdef	Setting values

Refer to “Object of userdef” and “Object of userdef ability” of “Picture style (userdef1)” for the JSON data structures.

**JSON example**

```
{
    "value": {
        "basepicturestyle": "auto",
        "sharpness_strength": 4,
        "sharpness_fineness": 2,
        "sharpness_threshold": 4,
        "contrast": 0,
        "saturation": 0,
        "colortone": 0
    }
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of userdef	Present values

Refer to "Object of userdef" and "Object of userdef ability" of "Picture style (userdef1)" for the JSON data structures.

**JSON example**

```
{
  "value": {
    "basepicturestyle": "auto",
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- The value is not a JSON object.</li> <li>sharpness_strength, sharpness_fineness, sharpness_threshold, contrast, saturation, or colortone is an illegal value.</li> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value below the ability minimum value is input.</li> <li>- A value that exceeds the ability maximum value is input.</li> <li>- A value that does not conform to the ability</li> </ul>

	step is input.
--	----------------

**JSON example**

<pre>{   "message": "Invalid parameter" }</pre>
---

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

<pre>{   "message": "Device busy" }</pre>
---

**■ DELETE**

This initializes the detailed parameters for picture style (userdef2).

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/userdef2

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of userdef	Defaults

Refer to “Object of userdef” and “Object of userdef ability” of “Picture style (userdef1)” for the JSON data structures.

**JSON example**

```
{
  "value": {
    "basepicturestyle": "auto",
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```



### 4.9.39. Picture style (userdef3)

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/picturestyle/userdef3

#### ■ GET

This gets the present values and ability values of the detailed parameters for picture style (userdef3).

In case of a Canon camera that does not support picture style, this API is not supported. Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/userdef3

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	Object of userdef	Present values
ability	Object of userdef ability	Ability values

Refer to “Object of userdef” and “Object of userdef ability” of “Picture style (userdef1)” for the JSON data structures.

##### JSON example

```
{  
    "value": {  
        "basepicturestyle": "auto",  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "saturation": 0,  
        "colortone": 0  
    },  
    "ability": {  
        "basepicturestyle": [],  
        "sharpness_strength": {  
            "min": 0,  
            "max": 100  
        }  
    }  
}
```

```
        "max": 7,
        "step": 1
    },
    "sharpness_fineness": {
        "min": 1,
        "max": 5,
        "step": 1
    },
    "sharpness_threshold": {
        "min": 1,
        "max": 5,
        "step": 1
    },
    "contrast": {
        "min": -4,
        "max": 4,
        "step": 1
    },
    "saturation": {
        "min": -4,
        "max": 4,
        "step": 1
    },
    "colortone": {
        "min": -4,
        "max": 4,
        "step": 1
    }
}
```

## Response 503

## Headers

Header Field	Value
Content-Type	application/json

## Body

JSON Field	Data Type	Description
message	string	Message

## Message description

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

**■ PUT**

This changes the detailed parameters for picture style (userdef3).

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/userdef3

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	Object of userdef	Setting values

Refer to “Object of userdef” and “Object of userdef ability” of “Picture style (userdef1)” for the JSON data structures.

**JSON example**

```
{  
    "value": {  
        "basepicturestyle": "auto",  
        "sharpness_strength": 4,  
        "sharpness_fineness": 2,  
        "sharpness_threshold": 4,  
        "contrast": 0,  
        "saturation": 0,  
        "colortone": 0  
    }  
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of userdef	Present values

Refer to "Object of userdef" and "Object of userdef ability" of "Picture style (userdef1)" for the JSON data structures.

**JSON example**

```
{
  "value": {
    "basepicturestyle": "auto",
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- The value is not a JSON object.</li> <li>sharpness_strength, sharpness_fineness, sharpness_threshold, contrast, saturation, or colortone is an illegal value.</li> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value below the ability minimum value is input.</li> <li>- A value that exceeds the ability maximum value is input.</li> <li>- A value that does not conform to the ability</li> </ul>

	step is input.
--	----------------

**JSON example**

<pre>{     "message": "Invalid parameter" }</pre>
---

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

<pre>{     "message": "Device busy" }</pre>
---

**■ DELETE**

This initializes the detailed parameters for picture style (userdef3).

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/userdef3

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	Object of userdef	Defaults

Refer to “Object of userdef” and “Object of userdef ability” of “Picture style (userdef1)” for the JSON data structure.

**JSON example**

```
{
  "value": {
    "basepicturestyle": "auto",
    "sharpness_strength": 4,
    "sharpness_fineness": 2,
    "sharpness_threshold": 4,
    "contrast": 0,
    "saturation": 0,
    "colortone": 0
  }
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```



#### 4.9.40. Base picture style (userdef1)

##### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/picturestyle/userdef1/basepicturestyle`

##### ■ GET

This gets the present value and ability values of the userdef1 base picture style setting.

In case of a Canon camera that does not support picture style, this API is not supported. Check the Canon camera used.

##### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/userdef1/basepicturestyle`

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

###### Value of value

Name	Description
auto	Auto
standard	Standard
portrait	Portrait
landscape	Landscape
finedetail	Emphasis on detail
neutral	Neutral
faithful	Faithful
monochrome	Monochrome

###### JSON example

```
{
  "value": "auto",
```

```

    "ability": ["auto", "standard", "portrait", "landscape", "finedetail",
    "neutral", "faithful", "monochrome"]
}

```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the userdef1 base picture style setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/userdef1/basepicturestyle

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "auto"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
  "value": "auto"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.9.41. Base picture style (userdef2)

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/picturestyle/userdef2/basepicturestyle

##### ■ GET

This gets the present value and ability values of the userdef2 base picture style setting.

In case of a Canon camera that does not support picture style, this API is not supported. Check the Canon camera used.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/userdef2/basepicturestyle

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

###### Value of value

Name	Description
auto	Auto
standard	Standard
portrait	Portrait
landscape	Landscape
finedetail	Emphasis on detail
neutral	Neutral
faithful	Faithful
monochrome	Monochrome

###### JSON example

```
{  
    "value": "auto",
```

```

    "ability": ["auto", "standard", "portrait", "landscape", "finedetail",
    "neutral", "faithful", "monochrome"]
}

```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the userdef2 base picture style setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/userdef2/basepicturestyle

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "auto"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
  "value": "auto"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.42. Base picture style (userdef3)

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/picturestyle/userdef3/basepicturestyle`

#### ■ GET

This gets the present value and ability values of the userdef3 base picture style setting.

In case of a Canon camera that does not support picture style, this API is not supported. Check the Canon camera used.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/userdef3/basepicturestyle`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
auto	Auto
standard	Standard
portrait	Portrait
landscape	Landscape
finedetail	Emphasis on detail
neutral	Neutral
faithful	Faithful
monochrome	Monochrome

##### JSON example

```
{
  "value": "auto",
```

```

    "ability": ["auto", "standard", "portrait", "landscape", "finedetail",
    "neutral", "faithful", "monochrome"]
}

```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the userdef3 base picture style setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/picturestyle/userdef3/basepicturestyle

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{  
    "value": "auto"  
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{  
    "value": "auto"  
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{  
    "message": "Invalid parameter"  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.9.43. Anti-flicker shoot

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/antiflickershoot

##### ■ GET

This gets the present value and ability values of the Anti-flicker shoot.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/shooting/settings/antiflickershoot

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

###### Value of value

Name	Description
enable	Enabled
disable	Disabled

###### JSON example

```
{  
    "value": "enable",  
    "ability": ["enable", "disable"]  
}
```

##### Response 503

###### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the Anti-flicker shoot.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver110/shooting/settings/antiflickershoot

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "disable"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "disable"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.9.44. HF Anti-flicker shoot

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/hfantiflickershoot

##### ■ GET

This gets the present value and ability values of the HF Anti-flicker shoot.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/shooting/settings/hfantiflickershoot

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

###### Value of value

Name	Description
enable	Enabled
disable	Disabled

###### JSON example

```
{  
    "value": "enable",  
    "ability": ["enable", "disable"]  
}
```

##### Response 503

###### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Camera in shooting mode other than M or Tv - Recording state of the movie

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the HF Anti-flicker shoot.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver110/shooting/settings/hfantiflickershoot

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "disable"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "disable"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Camera in shooting mode other than M or Tv - Recording state of the movie

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.9.45. HF flicker TV

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/hfflickertv

##### ■ GET

This gets the present value of the HF flicker TV.

For the values that this API can take, check the Canon camera used.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/shooting/settings/hfflickertv

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	string	Present value

###### JSON example

```
{  
    "value": "1¥/100.0",  
}
```

##### Response 503

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
message	string	Message

###### Message description

Message	Description
Device busy	The function is temporarily unavailable.

Mode not supported	The request cannot be made in the current mode. - HF flickerless shooting is OFF - Recording state of the movie
--------------------	---

**JSON example**

{ "message": "Device busy" }
------------------------------------

**■ PUT**

This changes the HF flicker TV.

This API can be executed only in the “HF flicker detection result display state” after execution of the HF flicker detection API (/shooting/control/hfflickeredetection).

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver110/shooting/settings/hfflickertv

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

{ "value": "1¥100. 0" }
-------------------------------

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description

value	string	Present value
-------	--------	---------------

**JSON example**

```
{
    "value": "1¥/100.0"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- A value not present in ability is input.</li> </ul>

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.

	<ul style="list-style-type: none"><li>- The camera is not displaying the HF flicker detection result</li></ul>
Mode not supported	<p>The request cannot be made in the current mode.</p> <ul style="list-style-type: none"><li>- HF flickerless shooting is OFF</li><li>- Recording state of the movie</li></ul>

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.9.46. Focus bracketing

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/focusbracketing

##### ■ GET

This gets the present value and ability values of the Focus bracketing.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/focusbracketing

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

###### Value of value

Name	Description
enable	Enabled
disable	Disabled

###### JSON example

```
{  
    "value": "disable ",  
    "ability": ["enable ", "disable"]  
}
```

##### Response 503

###### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the Focus bracketing.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/focusbracketing

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "enable"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "enable"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.9.47. Focus bracketing (number of shots)

##### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/focusbracketing/numberofshots`

##### ■ GET

This gets the present value and ability values of the Focus bracketing (number of shots).

##### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/focusbracketing/numberofshots`

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	Integer	Present value
ability	Object of range	Ability values

###### Object of range

JSON Field	Data Type	Description
min	integer	Minimum value
max	integer	Maximum value
step	integer	Step

###### JSON example

```
{
    "value":100,
    "ability":{"min":2,"max":999,"step":1}
}
```

##### Response 503

###### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This gets the present value and ability values of the Focus bracketing (number of shots).

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/focusbracketing/numberofshots

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	Integer	Setting value

**JSON example**

```
{
  "value": 100
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": 100
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value that below the minimum value of "ability" has been entered.</li> <li>- A value that exceeds the maximum value of "ability" has been entered.</li> <li>- A value that does not follow the step of "ability" has been entered.</li> </ul>

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.9.48. Focus bracketing (focus increment)

##### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/focusbracketing/focusincrement`

##### ■ GET

This gets the present value and ability values of the Focus bracketing (focus increment).

##### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/focusbracketing/focusincrement`

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	Integer	Present value
ability	Object of range	Ability values

###### Object of range

JSON Field	Data Type	Description
min	integer	Minimum value
max	integer	Maximum value
step	integer	Step

###### JSON example

```
{
    "value":4,
    "ability":{"min":1,"max":10,"step":1}
}
```

##### Response 503

###### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the Focus bracketing (focus increment).

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/focusbracketing/focusincrement

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	Integer	Setting value

**JSON example**

```
{
  "value": 4
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": 4
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value that below the minimum value of "ability" has been entered.</li> <li>- A value that exceeds the maximum value of "ability" has been entered.</li> <li>- A value that does not follow the step of "ability" has been entered.</li> </ul>

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

#### 4.9.49. Focus bracketing (exposure smoothing)

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/focusbracketing/exposuresmoothing

##### ■ GET

This gets the present value and ability values of the Focus bracketing (exposure smoothing).

##### Example URI

GET

http://192.168.1.2:8080/ccapi/ver100/shooting/settings/focusbracketing/exposuresmoothing

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

###### Value of value

Name	Description
enable	Enabled
disable	Disabled

###### JSON example

```
{  
    "value": "disable ",  
    "ability": ["enable ", "disable"]  
}
```

##### Response 503

###### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the Focus bracketing (exposure smoothing).

**Example URI**

PUT

<http://192.168.1.2:8080/ccapi/ver100/shooting/settings/focusbracketing/exposuresmoothing>

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "enable"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "enable"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.50. Movie recording image quality

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/moviequality`

#### ■ GET

This gets the present value and ability values of the movie recording image quality setting.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/moviequality`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

value contains setting value of moving recording image quality.

The setting value is expressed in the following format.

Movie crop off :

`"[Image size]_[Frame rate]_[Compression method]_[Compression rate]"`

Movie crop on :

`"[Image size]_[Frame rate]_[Compression method]_[Compression rate]_crop"`

##### Value sample

Name	Description
5472x2886_5994_raw_standard	5472x2886 59.94fps RAW
4096x2160_5994_alli_standard_crop	4096x2160 59.94fps For editing (ALL-I) Movie crop
1920x1080_2997_ipb_standard	1920x1080 29.97fps Standard (IPB)
1920x1080_2500_ipb_light	1920x1080 25.00fps Light (IPB)

**Value of Image size**

Name	Description
4k	3840x2160 (models with Digic8)
fhd	1920x1080 (models with Digic8)
hd	1280x720 (models with Digic8)
8192x4320	8192x4320
7680x4320	7680x4320
6000x3164	6000x3164
5472x2886	5472x2886
4096x2160	4096x2160
3840x2160	3840x2160
1920x1080	1920x1080

**Value of Frame rate**

Name	Description
17982	179.82fps
15000	150.00fps
11988	119.9fps
10000	100.0fps
5994	59.94fps
5000	50.00fps
2997	29.97fps
2500	25.00fps
2400	24.00fps
2398	23.98fps

**Value of Compression method**

Name	Description
raw	RAW
alli	ALL-I
ipb	IPB

**Value of Compression rate**

Name	Description

standard	For editing, standard
light	light

**JSON example**

```
{
    "value": "fhd_5994_ipb_standard",
    "ability": ["4k_2997_ipb_standard", "fhd_5994_ipb_standard", "fhd_2997_ipb_st
andard", "hd_5994_ipb_standard"]
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still image mode is in progress.

**JSON example**

```
{
    "message": "Device busy"
}
```

**■ PUT**

This changes the movie recording image quality setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/moviequality

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
    "value": "fhd_5994_ipb_standard"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "fhd_5994_ipb_standard"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value.

	<ul style="list-style-type: none"><li>- Nonexistent value</li><li>- Non-string value</li><li>- A value not present in ability is input.</li></ul>
--	---

**JSON example**

```
{  
    "message": "Invalid parameter"  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still image mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.51. High frame rate setting

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/highframerate

#### ■ GET

This gets the present value and ability values of the high frame rate setting.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/shooting/settings/highframerate

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
enable	Enable
disable	Disable

##### JSON example

```
{  
    "value": "enable",  
    "ability": ["enable", "disable"]  
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still image mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the high frame rate setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver110/shooting/settings/highframerate

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "disable"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "disable"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still image mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.52. Movie Cropping

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/moviecropping

#### ■ GET

This gets the present value and ability values of the Movie Cropping.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/shooting/settings/moviecropping

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
enable	Enabled
disable	Disabled

##### JSON example

```
{  
    "value": "enable",  
    "ability": ["enable", "disable"]  
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still image mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the Movie Cropping.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver110/shooting/settings/moviecropping

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "disable"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "disable"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still image mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

### 4.9.53. Movie rec. format

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/movieformat

#### ■ GET

This gets the present value and ability values of the Movie rec. format.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver110/shooting/settings/movieformat

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
raw	RAW
mp4	MP4

##### JSON example

```
{  
    "value": "raw",  
    "ability": ["raw", "mp4"]  
}
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still image mode is in progress

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the Movie rec. format.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver110/shooting/settings/movieformat

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "raw"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "raw"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still image mode is in progress

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.54. Sound recording setting

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/soundrecording

#### ■ GET

This gets the present value and ability values of the sound recording setting.

In case of a Canon camera that does not support the sound recording setting, this API is not supported. Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/soundrecording

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### Value of value

Name	Description
auto	Auto
manual	Manual
disable	Disabled

##### JSON example

```
{  
    "value": "auto",  
    "ability": ["auto", "manual", "disable"]  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still image mode is in progress.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the sound recording setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/soundrecording

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "manual"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
  "value": "manual"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still image mode is in progress.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.55. Sound recording level

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/soundrecording/level

#### ■ GET

This gets the present value and ability values of the sound recording level setting.

In case of a Canon camera that does not support the sound recording level, this API is not supported. Check the Canon camera used.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/soundrecording/level

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	integer	Present value
ability	Object of range	Ability values

##### Object of range

JSON Field	Data Type	Description
min	integer	Minimum value
max	integer	Maximum value
step	integer	Step

##### JSON example

```
{  
    "value": 0,  
    "ability": {"min": 0, "max": 63, "step": 1}  
}
```

#### Response 503

##### Headers

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still image mode is in progress. - The sound recording setting is other than manual.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the sound recording level setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/soundrecording/level

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	integer	Setting value

**JSON example**

```
{
```

```
{
    "value": 0
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	integer	Present value

**JSON example**

```
{
    "value": 0
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-integer value</li> <li>- A value below the ability minimum value is input.</li> <li>- A value that exceeds the ability maximum value is input.</li> <li>- A value that does not conform to the ability step is input.</li> </ul>

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

```
}
```

### Response 503

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
message	string	Message

#### Message description

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still image mode is in progress. - The sound recording setting is other than manual.

#### JSON example

```
{
    "message": "Device busy"
}
```

## 4.9.56. Wind filter

### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/soundrecording/windfilter`

#### ■ GET

This gets the present value and ability values of the wind filter setting.

In case of a Canon camera that does not support the wind filter, this API is not supported.

Check the Canon camera used.

### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/settings/soundrecording/windfilter`

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

#### Value of value

Name	Description
auto	Auto
enable	有効
disable	Disabled

#### JSON example

```
{
  "value": "auto",
  "ability": ["auto", "disable"]
}
```

### Response 503

#### Headers

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still image mode is in progress. - The sound recording setting is disable.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the wind filter setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/soundrecording/windfilter

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
  "value": "disable"
}
```

}
---

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

{ "value": "disable" }
------------------------------

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

{ "message": "Invalid parameter" }
--

**Response 503****Headers**

Header Field	Value

Content-Type	application/json
--------------	------------------

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still image mode is in progress. - The sound recording setting is disable.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.9.57. Attenuator

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/settings/soundrecording/attenuator

#### ■ GET

This gets the present value and ability values of the attenuator setting.

In case of a Canon camera that does not support the attenuator, this API is not supported.

Check the Canon camera used.

### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/settings/soundrecording/attenuator

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

#### Value of value

Name	Description
enable	Enabled
disable	Disabled
auto	Auto
manual	マニュアル

#### JSON example

```
{  
    "value": "enable",  
    "ability": ["enable", "disable", "auto"]  
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still image mode is in progress. - The sound recording setting is disable.

**JSON example**

```
{
  "message": "Device busy"
}
```

**■ PUT**

This changes the attenuator setting.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/settings/soundrecording/attenuator

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

{ "value": "disable" }
------------------------------

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

{ "value": "disable" }
------------------------------

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value. - Nonexistent value - Non-string value - A value not present in ability is input.

**JSON example**

{ "message": "Invalid parameter" }
--

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	The request cannot be made in the current mode. - Still image mode is in progress. - The sound recording setting is disable.

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.10. Recording Information

### 4.10.1. Recordable information

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/information/recordable

#### ■ GET

This gets the recordable information.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/information/recordable

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
recordableshots	integer (nullable)	Number of recordable still images * This is null in movie mode.
remainingtime	integer (nullable)	Remaining recording time (seconds) * This is null in still image mode.

##### JSON example

```
{  
    "recordableshots": 100,  
    "remainingtime": 3600  
}
```

## 4.11. Live View

### 4.11.1. Live View settings

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/liveview

#### ■ POST

This executes the Live View settings.

The Live View image size differs according to the model.

#### Example URI

POST http://192.168.1.2:8080/ccapi/ver100/shooting/liveview

#### Request

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
liveviewsize	string	Live View output control
cameradisplay	string	Camera liquid crystal display control

##### Value of liveviewsize

Name	Description
off	Does not perform Live View output.
small	Performs Live View output at small size.
medium	Performs Live View output at medium size.

##### Value of cameradisplay

Name	Description
on	Camera liquid crystal display ON
off	Camera liquid crystal display OFF
keep	Maintain current Camera liquid crystal display

**JSON example**

```
{
  "liveviewsize": "small",
  "cameradisplay": "on"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

```
{}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	liveviewsize or cameradisplay is an illegal value. - Nonexistent value - Non-string value - An unanticipated character string is input. - "liveviewsize":"off" or "cameradisplay":"off" was set for a model that does not allow these settings.

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	<p>The request cannot be made in the current mode.</p> <ul style="list-style-type: none"><li>An attempt was made to set cameradisplay to off in Movie mode</li><li>The camera's live view shooting setting is "disabled"</li></ul>

**JSON example**

```
{  
    "message": "Mode not supported"  
}
```

## 4.11.2. flip

### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/liveview/flip

#### ■ GET

This gets the Live View image.

It may not be possible to get the Live View image immediately after executing the Live View settings. When the Live View image could not be acquired, execute this API again.

#### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/liveview/flip

#### Response 200

##### Headers

Header Field	Value
Content-Type	image/jpeg

##### Body

JPEG data of the Live View image

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
message	string	Message

##### Message description

Message	Description
Device busy	The function is temporarily unavailable. - The Canon camera is displaying the menu, etc.
Live view not started	Live View has not started. - An attempt was made to get a Remote Live View image in the state with Remote Live

	View not started.
--	-------------------

**JSON example**

{ "message": "Live view not started" }
--

### 4.11.3. flipdetail

#### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/liveview/flipdetail[?kind]`

#### URI Parameters

Name	Status	Data Type	Description
kind	optional	string	Data kind

#### Value of kind

Name	Description
image	Live View image data only (Default when kind is not designated)
info	Live View incidental information only
both	Live View image data and Live View incidental information

#### ■ GET

This gets the Live View image and/or the Live View incidental information in an original format. Refer to “LiveView Data (Binary)” of “5. Data Format” hereafter for the structure of the original format.

It may not be possible to get the Live View image immediately after executing the Live View settings. When the Live View image could not be acquired, execute this API again.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/liveview/flipdetail?kind=both`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/octet-stream

##### Body

Binary data comprising “LiveView Data (Binary)” of “5. Data Format” hereafter.

##### Body example

- When kind = image

0xFF, 0x00, 0x00, <Image data size 4 bytes>, <Image binary data>, 0xFF, 0xFF
--

- When kind = info

```
0xFF, 0x00, 0x01, <Incidental information data size 4 bytes>, <Incidental information binary data>, 0xFF, 0xFF
```

- When kind = both

```
0xFF, 0x00, 0x01, <Incidental information data size 4 bytes>, <Incidental information binary data>, 0xFF, 0xFF,
0xFF, 0x00, 0x00, <Image data size 4 bytes>, <Image binary data>, 0xFF, 0xFF
```

### Response 503

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

JSON Field	Data Type	Description
message	string	Message

#### Message description

Message	Description
Device busy	The function is temporarily unavailable. - The Canon camera is displaying the menu, etc.
Live view not started	Live View has not started. - An attempt was made to get a Remote Live View image in the state with Remote Live View not started.

#### JSON example

```
{
  "message": "Live view not started"
}
```

#### 4.11.4. scroll

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/liveview/scroll

##### ■ GET

This starts transmission of the Live View image in chunk format.

When this API is executed but the Live View image cannot be sent for a reason such as that the Canon camera is displaying the menu, a 160 x 120 size black image is sent.

It may not be possible to get the Live View image immediately after executing the Live View settings. When the Live View image could not be acquired, execute this API again.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/liveview/scroll

##### Response 200

###### Headers

Header Field	Value
Content-Type	image/octet-stream
transfer-encoding	chunked

###### Body

JPEG data of the Live View image divided into chunks.

###### Chunked example

```
<Chunk data size (Hex)>
<JPEG data>
<Chunk data size (Hex)>
<JPEG data>
...
...
0
```

##### Response 503

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description

message	string	Message
---------	--------	---------

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Live view not started	Live View has not started. - An attempt was made to get a Remote Live View image in the state with Remote Live View not started.
Already started	Processing has already started. - This API was called in the state with Live View already started by this API.

**JSON example**

{ "message": "Live view not started" }
--

**■ DELETE**

This stops transmission of the Live View image in chunk format.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/shooting/liveview/scroll

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

{}
----

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Live view not started	Live View has not started. - An attempt was made to stop Remote Live View in the state with Remote Live View not started.

**JSON example**

```
{  
    "message": "Live view not started"  
}
```

#### 4.11.5. scrolldetail

##### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/liveview/scrolldetail[?kind]`

##### URI Parameters

Name	Status	Data Type	Description
kind	optional	string	Data kind

##### Value of kind

Name	Description
image	Live View image data (Default when kind is not designated)
info	Live View incidental information
both	Live View image data and Live View incidental information

##### ■ GET

This starts transmission of the Live View image and Live View incidental information in chunk format.

When this API is executed but the Live View image cannot be sent for a reason such as that the Canon camera is displaying the menu, a 160 x 120 size black image is sent.

It may not be possible to get the Live View image immediately after executing the Live View settings. When the Live View image could not be acquired, execute this API again.

##### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/shooting/liveview/scrolldetail?kind=both`

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/octet-stream
transfer-encoding	chunked

###### Body

Binary data comprising “LiveView Data (Binary)” of “5. Data Format” hereafter.

“LiveView Data (Binary)” is divided in chunk format and sent in the following order.

- Start Byte / Data Type / Data Size
- Data
- End Byte

**Chunked example**

- When kind = image

```
<Chunk data size (Hex)>
0xFF, 0x00, 0x00, <Image data size 4 bytes>
<Chunk data size (Hex)>
<Image binary data>
<Chunk data size (Hex)>
0xFF, 0xFF
<Chunk data size (Hex)>
0xFF, 0x00, 0x00, <Image data size 4 bytes>
<Chunk data size (Hex)>
<Image binary data>
<Chunk data size (Hex)>
0xFF, 0xFF
...
...
0
```

- When kind = info

```
<Chunk data size (Hex)>
0xFF, 0x00, 0x01, <Incidental information data size 4 bytes>
<Chunk data size (Hex)>
<Incidental information binary data>
<Chunk data size (Hex)>
0xFF, 0xFF
<Chunk data size (Hex)>
0xFF, 0x00, 0x01, <Incidental information data size 4 bytes>
<Chunk data size (Hex)>
<Incidental information binary data>
<Chunk data size (Hex)>
0xFF, 0xFF
...
...
0
```

- When kind = both

```
<Chunk data size (Hex)>
0xFF, 0x00, 0x01, <Incidental information data size 4 bytes>
<Chunk data size (Hex)>
<Incidental information binary data>
<Chunk data size (Hex)>
0xFF, 0xFF
<Chunk data size (Hex)>
0xFF, 0x00, 0x00, <Image data size 4 bytes>
<Chunk data size (Hex)>
<Image binary data>
<Chunk data size (Hex)>
0xFF, 0xFF
...
...
0
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Live view not started	Live View has not started. - An attempt was made to get a Remote Live View image in the state with Remote Live View not started.
Already started	Processing has already started. - This API was called in the state with Live View already started by this API.

**JSON example**

```
{
  "message": "Live view not started"
}
```

**■ DELETE**

This stops getting the Live View image and Live View incidental information in chunk format.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/liveview/scrolldetail

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

{}

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Live view not started	Live View has not started. - An attempt was made to stop Remote Live View in the state with Remote Live View not started.

**JSON example**{  
    "message": "Live view not started"  
}

#### 4.11.6. multipart

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/liveview/multipart

##### ■ GET

This starts transmission of the Live View image (multipart format) in chunk format.

After executing this API, but the Live View image cannot be sent for a reason such as that the Canon camera is displaying the menu, a 160 x 120 size black image is sent.

It may not be possible to get the Live View image immediately after executing the Live View settings. When the Live View image could not be acquired, execute this API again.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/liveview/multipart

##### Response 200

###### Headers

Header Field	Value
Content-Type	multipart/x-mixed-replace;boundary=boundary
transfer-encoding	chunked

###### Body

JPEG data of the Live View image divided into chunks.

JPEG data is formatted in the following multipart format.

```
➤ multipart format.  
--boundary[LF]  
Content-Type: image/jpeg[LF]  
Content-Length: 123456[LF]  
[LF]  
(LV image data)  
[LF]  
--boundary[LF]  
Content-Type: image/jpeg[LF]  
Content-Length: 123456[LF]  
[LF]  
(LV image data)  
[LF]  
...  
...  
--boundary--[LF]
```

**Chunked example**

```
<Chunk data size (Hex)>
--boundary[LF]
Content-Type: image/jpeg[LF]
Content-Length: 123456[LF]
[LF]
<Chunk data size (Hex)>
<JPEG DATA>
<Chunk data size (Hex)>
[LF]
<Chunk data size (Hex)>
--boundary[LF]
Content-Type: image/jpeg[LF]
Content-Length: 123456[LF]
[LF]
<Chunk data size (Hex)>
<JPEG DATA>
<Chunk data size (Hex)>
[LF]
...
...
0
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Live view not started	Live View has not started. - An attempt was made to get a Remote Live View image in the state with Remote Live View not started.
Already started	Processing has already started. - This API was called in the state with Live View already started by this API.

**JSON example**

```
{
  "message": "Live view not started"
}
```

**■ DELETE**

This stops transmission of the Live View image (multipart format) in chunk format.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/shooting/liveview/multipart

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

```
[]
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Live view not started	Live View has not started. - An attempt was made to stop Remote Live View in the state with Remote Live View not started.

**JSON example**

```
{
```

```
        "message": "Live view not started"  
    }
```

#### 4.11.7. Get SDP

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/liveview/rtpsessiondesc

##### ■ GET

This gets the SDP file of RTP.

##### Example URI

GET http://192.168.1.2:8080/ccapi/ver100/shooting/liveview/rtpsessiondesc

##### Response 200

###### Headers

Header Field	Value
Content-Type	text/plain

###### Body

SDP file text data

###### Text example

- In case of a IPv4

```
v=0
o=- 0 0 IN IP4 192.168.11.4
s=RTP Session
c=IN IP4 0.0.0.0
t=0 0
a=control *
m=video 12000 RTP/AVP 103
a=rtpmap:103 H264/90000
m=audio 12010 RTP/AVP 106
a=rtpmap:106 MP4A-LATM/48000
```

- In case of a IPv6

```
v=0
o=- 0 0 IN IP6 2001::a:a:a:1
s=RTP Session
c=IN IP6 ::1
t=0 0
a=control *
m=video 12000 RTP/AVP 103
a=rtpmap:103 H264/90000
m=audio 12010 RTP/AVP 106
a=rtpmap:106 MP4A-LATM/48000
```

#### 4.11.8. Start/Stop RTP

##### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/liveview/rtp`

##### ■ POST

This executes RTP start or stop.

When start is executed with this API, this sends movie data and audio data in RTP form.

For details of RTP, refer to the RFC 3550.

##### Example URI

POST `http://192.168.1.2:8080/ccapi/ver100/shooting/liveview/rtp`

##### Request

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
action	string	RTP start status
ipaddress	string	Destination IP address

###### Value of action

Name	Description
start	Starts distribution
stop	Stops distribution

###### JSON example

```
{
  "action": "start",
  "ipaddress": "192.168.11.5"
}
```

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

{}

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>action is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input.</li> </ul> <p>[When action is stop]</p> <ul style="list-style-type: none"> <li>- RTP has not started.</li> </ul> <p>ipaddress is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- The designated IP address is illegal.</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description

message	string	Message
---------	--------	---------

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.
Mode not supported	<p>The request cannot be made in the current mode.</p> <ul style="list-style-type: none"><li>- The camera mode is not in video</li><li>- Audio compression is set to "Enabled"</li><li>- HDR Shooting is set to "Enabled".</li><li>- Movie recording image quality is set to something other than FHD 30/25 fps.</li></ul>
Already started	Processing has already started.

**JSON example**

```
{  
    "message": "During shooting or recording"  
}
```

#### 4.11.9. Get angle information

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/liveview/angleinformation

##### ■ POST

This executes start and stop for get angle information.

When start is executed with this API, the angle information can be acquired from the Live View incidental information, regardless of the shooting mode.

##### Example URI

POST http://192.168.1.2:8080/ccapi/ver100/shooting/liveview/angleinformation

##### Request

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

JSON Field	Data Type	Description
action	string	Start/stop instruction for get angle information

###### Value of action

Name	Description
start	Starts get
stop	Stops get

###### JSON example

```
{  
    "action":"start"  
}
```

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

Empty JSON object

**JSON example**

{}
----

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>action is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- An unanticipated character string is input.</li> </ul>

**JSON example**

{ "message": "Invalid parameter" }
--

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.

**JSON example**

{
---

```
    "message": "Device busy"
```

```
}
```

#### 4.11.10. Designate AF frame position

##### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/liveview/afframeposition

##### ■ PUT

This changes the AF frame position.

The coordinate positions to be designated are the coordinates that use the number of pixels of the still image large size as the reference.

In case of a Canon camera that does not support touch panel operation, this API is not supported. Check the Canon camera used.

##### Example URI

PUT http://192.168.1.2:8080/ccapi/ver100/shooting/liveview/afframeposition

##### Request

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

Field	Data Type	Description
positionx	integer	X coordinate of AF frame
positiony	integer	Y coordinate of AF frame

###### JSON example

```
{  
    "positionx": 1234,  
    "positiony": 5678  
}
```

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

Empty JSON object

**JSON example**

{}

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	positionx is an illegal value. - Nonexistent value - Non-integer value positiony is an illegal value. - Nonexistent value - Non-integer value

**JSON example**{  
    "message": "Invalid parameter"  
}**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.

**JSON example**

```
{  
    "message": "Device busy"  
}
```



### 4.11.11. Click white balance

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/liveview/clickwb

#### ■ POST

Changes the white balance according to the specified position on the live view image.

Changed white balance is saved in "Custom white balance (CWB)".

The coordinates you specify are relative to the number of pixels in the still image large size.

After executing this API, the white balance will be changed to "Custom white balance (CWB)".

#### Example URI

POST http://192.168.1.2:8080/ccapi/ver110/shooting/liveview/clickwb

#### Request

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

Field	Data Type	Description
positionx	integer	X coordinate
positiony	integer	Y coordinate

##### JSON example

```
{  
    "positionx": 1234,  
    "positiony": 5678  
}
```

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

Empty JSON object

##### JSON example

```
[]
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>positionx is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-integer value</li> </ul> <p>positiony is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-integer value</li> </ul>

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Live view not started	<p>Live View has not started.</p> <ul style="list-style-type: none"> <li>- This API was executed while Remote Live View was not started</li> </ul>

**JSON example**

```
{  
    "message": "Device busy"  
}
```

## 4.12. Optical Viewfinder

### 4.12.1. Optical Viewfinder API

The Optical Viewfinder API is a set of APIs for changing the AF area selection mode in the optical viewfinder and changing the AF area.

The target model is EOS-1D X Mark III only.

### 4.12.2. AF area selection mode

#### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/shooting/opticalselector/afareaselectionmode`

#### ■ GET

This gets the present value and ability values of the AF Area selection mode.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver110/shooting/opticalselector/afareaselectionmode`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
value	string	Present value
ability	array [string]	Ability values

##### value of value

Name	Description
spot	Manual selection:Spot AF
1point	Manual selection:1-pointAF
expand_cross	Manual selection:Expand AF area:Cross
expand_around	Manual selection:Expand AF area:Around
zone	Manual selection:Zone AF
large_zone	Manual selection:Large Zone AF

auto	Auto selection AF
------	-------------------

**JSON example**

```
{
    "value": "spot",
    "ability": ["spot", "1point", "expand_cross", "expand_around", "zone", "large_zone",
    "auto"]
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Live view display is in progress. - Movie mode is in progress.

**JSON example**

```
{
    "message": "Mode not supported"
}
```

**■ PUT**

This changes the AF area selection mode.

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver110/shooting/settings/afareaselectionmode

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

```
{
    "value": "spot"
}
```

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "spot"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	value is an illegal value.

	<ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- A value not present in ability is input</li> </ul>
--	--

**JSON example**

```
{
  "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Live view display is in progress. - Movie mode is in progress.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
  "message": "Mode not supported"
}
```

**4.12.3. Manual selection of AF frame / AF area****URI**

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/opticalfinder/afareaselection

**■ GET**

This gets the present value of the AF frame / AF area.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver110/shooting/opticfinder/afareaselection

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**value of value**

value contains id to identify the AF frame / AF area.

The id is expressed in the following format

“kind\_xx\_yy”

Example: Center frame of the Spot AF “03\_09\_06”

Example: Auto selection AF “00\_00\_00”

**id format component**

Name	Description
kind	Type of AF area selection mode.
xx	X position of the AF frame / AF area
yy	Y position of the AF frame / AF area

**value of kind**

kind	Description
00	“auto”
01	“large_zone”
02	“zone”
03	“spot”, “1point”, “expand_cross”, “expand_around”

**Position of the AF frame / AF area**

The layout of the AF frame/AF area is shown in the following figure.

The coordinates and magnitude of each AF frame can get using the API (/afframeinformation).

The range of each AF area can get using the API (/ afareainformation).

#### Position of the AF frame

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
00								03_07_00	03_08_00	03_09_00	03_10_00	03_11_00							
01								03_07_01	03_08_01	03_09_01	03_10_01	03_11_01							
02	03_00_02	03_01_02	03_02_02	03_03_02	03_04_02	03_05_02	03_06_02	03_07_02	03_08_02	03_09_02	03_10_02	03_11_02	03_12_02	03_13_02	03_14_02	03_15_02	03_16_02	03_17_02	03_18_02
03	03_00_03	03_01_03	03_02_03	03_03_03	03_04_03	03_05_03	03_06_03	03_07_03	03_08_03	03_09_03	03_10_03	03_11_03	03_12_03	03_13_03	03_14_03	03_15_03	03_16_03	03_17_03	03_18_03
04	03_00_04	03_01_04	03_02_04	03_03_04	03_04_04	03_05_04	03_06_04	03_07_04	03_08_04	03_09_04	03_10_04	03_11_04	03_12_04	03_13_04	03_14_04	03_15_04	03_16_04	03_17_04	03_18_04
05	03_00_05	03_01_05	03_02_05	03_03_05	03_04_05	03_05_05	03_06_05	03_07_05	03_08_05	03_09_05	03_10_05	03_11_05	03_12_05	03_13_05	03_14_05	03_15_05	03_16_05	03_17_05	03_18_05
06	03_00_06	03_01_06	03_02_06	03_03_06	03_04_06	03_05_06	03_06_06	03_07_06	03_08_06	03_09_06	03_10_06	03_11_06	03_12_06	03_13_06	03_14_06	03_15_06	03_16_06	03_17_06	03_18_06
07	03_00_07	03_01_07	03_02_07	03_03_07	03_04_07	03_05_07	03_06_07	03_07_07	03_08_07	03_09_07	03_10_07	03_11_07	03_12_07	03_13_07	03_14_07	03_15_07	03_16_07	03_17_07	03_18_07
08	03_00_08	03_01_08	03_02_08	03_03_08	03_04_08	03_05_08	03_06_08	03_07_08	03_08_08	03_09_08	03_10_08	03_11_08	03_12_08	03_13_08	03_14_08	03_15_08	03_16_08	03_17_08	03_18_08
09	03_00_09	03_01_09	03_02_09	03_03_09	03_04_09	03_05_09	03_06_09	03_07_09	03_08_09	03_09_09	03_10_09	03_11_09	03_12_09	03_13_09	03_14_09	03_15_09	03_16_09	03_17_09	03_18_09
10	03_00_10	03_01_10	03_02_10	03_03_10	03_04_10	03_05_10	03_06_10	03_07_10	03_08_10	03_09_10	03_10_10	03_11_10	03_12_10	03_13_10	03_14_10	03_15_10	03_16_10	03_17_10	03_18_10
11								03_07_11	03_08_11	03_09_11	03_10_11	03_11_11							
12								03_07_12	03_08_12	03_09_12	03_10_12	03_11_12							

#### Position of the AF area (Zone AF)

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
00																			
01																			
02													02_01_00						
03																			
04															02_00_00				
05																			
06																			
07																			
08																			
09																			
10																			
11																			
12																			

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
00																			
01																			
02																			
03																			
04																			
05																			
06								02_00_01					02_01_01			02_02_01			
07																			
08																			
09																			
10																			
11																			
12																			

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
00																			
01																			
02																			
03																			
04																			
05																			
06																			
07																			
08							02_00_02												
09																			
10													02_01_02						
11																			
12																			

**Position of the AF area (Large Zone AF)**

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
00																			
01																			
02																			
03																			
04																			
05																			
06							01_00_00						01_01_00						01_02_00
07																			
08																			
09																			
10																			
11																			
12																			

**JSON example**

```
{
  "value": "00_00_00",
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

	- Live view display is in progress. - Movie mode is in progress.
--	---

**JSON example**

{ "message": "Mode not supported" }
---

**■ PUT**

This changes the AF frame / AF area.

The selectable AF frames can get using the API (/afframeinformation).

The selectable AF areas can get using the API (/afareainformation).

**Example URI**

PUT http://192.168.1.2:8080/ccapi/ver110/shooting/settings/afareaselection

**Request****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Field	Data Type	Description
value	string	Setting value

**JSON example**

{ "value": "03_09_06" }
-------------------------------

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
value	string	Present value

**JSON example**

```
{
    "value": "03_09_06"
}
```

**Response 400****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Invalid parameter	<p>value is an illegal value.</p> <ul style="list-style-type: none"> <li>- Nonexistent value</li> <li>- Non-string value</li> <li>- Unselectable value.</li> </ul>

**JSON example**

```
{
    "message": "Invalid parameter"
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode.

	- Live view display is in progress. - Movie mode is in progress.
During shooting or recording	Shooting or recording is in progress, so the function is unavailable.

**JSON example**

```
{
    "message": "Mode not supported"
}
```

#### 4.12.4. AF frame information

**URI**

http://[IPAddress]:[Port]/ccapi/[Version]/shooting/opticalfinder/afframeinformation

**■ GET**

This gets the AF frame information.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver110/shooting/opticalfinder/afframeinformation

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body****AF Frame Information data (JSON)**

JSON Field	Data Type	Description
afframenum	integer	Number of AF frame.
afframe	Object of afframes	AF frame information (※1)
visible	Object of visible	Visible region information. (※1)

(※1)

The coordinate positions and size informations to be getted are the coordinates that use the number of pixels of the still image large size as the reference

**Object of afframes**

JSON Field	Data Type	Description
Id (id identifying the AF frame)	Object of afframe	Information of each AF frame

**Object of afframe**

JSON Field	Data Type	Description								
select	integer	Selection status <table border="1" data-bbox="854 631 1346 795"> <thead> <tr> <th>Value (Hex)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0x00</td><td>Not selected</td></tr> <tr> <td>0x01</td><td>Selected</td></tr> <tr> <td>0x02</td><td>Not selectable</td></tr> </tbody> </table>	Value (Hex)	Description	0x00	Not selected	0x01	Selected	0x02	Not selectable
Value (Hex)	Description									
0x00	Not selected									
0x01	Selected									
0x02	Not selectable									
x	integer	X coordinate of frame upper left corner								
y	integer	Y coordinate of frame upper left corner								
width	integer	Frame width								
height	integer	Frame height								

**Object of visible**

JSON Field	Data Type	Description
x	integer	Visible range coordinate (X coordinate)
y	integer	Visible range coordinate (Y coordinate)
width	integer	Visible range coordinate (width)
height	integer	Visible range coordinate (height)

**JSON example**

```
{
  "afframenum": 191,
  "afframe": [
    "03_09_01": {
      "x": 2736,
      "y": 1261,
      "width": 99,
      "height": 104,
      "select": 0
    },
    "03_08_01": {...},
    "03_07_01": {...},
    ...
  ],
  "visible": {
    "x": 0,
    ...
  }
}
```

```

    "y": 0,
    "width": 5472,
    "height": 3648
}
}

```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Live view display is in progress. - Movie mode is in progress.

**JSON example**

```

{
    "message": "Mode not supported"
}

```

#### 4.12.5. AF area information

**URI**

[http://\[IPAddress\]:\[Port\]/ccapi/\[Version\]/shooting/opticalfinder/afareainformation](http://[IPAddress]:[Port]/ccapi/[Version]/shooting/opticalfinder/afareainformation)

**■ GET**

This gets the AF area information.

**Example URI**

GET <http://192.168.1.2:8080/ccapi/ver110/shooting/opticalfinder/afareainformation>

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body****AF Area Information data (JSON)**

JSON Field	Data Type	Description
auto	Object of AF Area Information	AF area information of the Auto selection AF.
large_zone	Object of AF Area Information	AF area information of the Large Zone AF.
zone	Object of AF Area Information	AF area information of the Zone AF.
visible	Object of visible	Visible region information. (※1)

**Object of AF Area Information**

JSON Field	Data Type	Description
afareanum	integer	Number of AF areas.
afarea	Object of afframes	Information of the AF area. (※1)

(※1)

The coordinate positions and size informations to be getted are the coordinates that use the number of pixels of the still image large size as the reference.

**Object of afframes**

JSON Field	Data Type	Description
id (id identifying the AF frame)	Object of afframe	Information for each AF area.

**Object of afframe**

JSON Field	Data Type	Description
select	integer	Selection status
		<b>Value (Hex)</b> <b>Description</b>
		0x00    Not selected
		0x01    Selected
		0x02    Not selectable

x	integer	X coordinate of area upper left corner
y	integer	Y coordinate of area upper left corner
width	integer	Area width
height	integer	Area height

**Object of visible**

JSON Field	Data Type	Description
x	integer	Visible range coordinate (X coordinate)
y	integer	Visible range coordinate (Y coordinate)
width	integer	Visible range coordinate (width)
height	integer	Visible range coordinate (height)

**JSON example**

```
{
  "auto": {
    "afareanum": 1,
    "afarea": {
      "00_00_00": {
        "x": 0,
        "y": 0,
        "width": 5472,
        "height": 3648,
        "select": 2
      }
    }
  },
  "large_zone": [...],
  "zone": [...],
  "visible": {
    "x": 0,
    "y": 0,
    "width": 5472,
    "height": 3648
  }
}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Device busy	The function is temporarily unavailable.
Mode not supported	The request cannot be made in the current mode. - Live view display is in progress. - Movie mode is in progress.

**JSON example**

```
{  
    "message": "Mode not supported"  
}
```

## 4.13. Get Camera Status

### 4.13.1. polling

#### ■ Ver.1.0.0

##### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/event/polling[?continue]`

##### URI Parameters

Name	Status	Data Type	Description
continue	optional	string	100 continue On/Off

##### Value of continue

Name	Description
off	100 continue Off (Default when continue is not designated)
on	100 continue On

#### ■ GET

This starts Get Event.

##### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/event/polling?continue=on`

##### Response 100

When continue = on, 100 Continue is returned until an event occurs.

##### Response 200

###### Headers

Header Field	Value
Content-Type	application/json

###### Body

Of the following JSON Field items, the items with statuses that have changed are returned.

For the data structure of items other than addedcontents, deletedcontents, updatedcontents, and cardformat, refer to the GET section of each item.

JSON Field	Data Type	Description

storage	object	Storage information
currentstorage	object	Current Storage Information
currentdirectory	object	Current Directory Information
battery	object	Battery information
batterylist	object	Battery information list
lens	object	Lens information
temperature	object	Camera internal temperature
copyright	object	Copyright holder name
author	object	Author name
datetime	object	Date and time
beep	object	Mute setting
displayoff	object	Auto Display Off setting
autopoweroff	object	Auto Power off setting
cardformat	object	Format
recordfunctions_separate	object	Still Image / movie Separate
recordfunctions_stillimage	object	Still Image Rec options
recordfunctions_movie	object	Movie Rec options
cardselection_stillimage	object	Still Image Record/play
cardselection_movie	object	Movie Record/play
moviemode	object	Movie mode
recbutton	object	Movie recording button control
zoom	object	Zoom control
shootingmode	object	Shooting mode details (models without a shooting mode dial)
shootingmodedial	object	Shooting mode dial position (models with a shooting mode dial)
shootingmodedial_movie	object	Movie recording mode details (models with a shooting mode dial)
av	object	AV
tv	object	TV
iso	object	ISO
exposure	object	Exposure compensation
wb	object	White balance

colortemperature	object	Color temperature
afoperation	object	AF operation
afmethod	object	AF method
trackingsetting	object	Subject tracking
shuttermode	object	Shutter Mode
stillimagequality	object	Still image shooting image quality
stillimagecompression_large	object	Still image compression Large
stillimagecompression_medium	object	Still image compression Medium
stillimagecompression_medium1	object	Still image compression Medium1
stillimagecompression_medium2	object	Still image compression Medium2
stillimagecompression_small	object	Still image compression Small
stillimagecompression_small1	object	Still image compression Small1
stillimagecompression_small2	object	Still image compression Small2
hdr	object	Still image HDR settings
stillimageaspectratio	object	Still image aspect ratio
flash	object	Flash
metering	object	Metering mode
drive	object	Continuous shooting mode
aeb	object	Exposure bracket
wbshift	object	WB shift
wbbracket	object	WB bracket
colorspace	object	Color space
picturestyle	object	Picture style kind
picturestyle_auto	object	Picture style (auto)
picturestyle_standard	object	Picture style (standard)
picturestyle_portrait	object	Picture style (portrait)
picturestyle_landscape	object	Picture style (landscape)
picturestyle_finedetail	object	Picture style (finedetail)
picturestyle_neutral	object	Picture style (neutral)
picturestyle_faithful	object	Picture style (faithful)
picturestyle_monochrome	object	Picture style (monochrome)
picturestyle_userdef1	object	Picture style (userdef1)
picturestyle_userdef1_basepicturestyle	object	Base picture style (userdef1)
picturestyle_userdef2	object	Picture style (userdef2)

picturestyle_userdef2_basepicturestyle	object	Base picture style (userdef2)
picturestyle_userdef3	object	Picture style (userdef3)
picturestyle_userdef3_basepicturestyle	object	Base picture style (userdef3)
antiflickershoot	object	Anti-flicker shoot
hfantiflickershoot	object	HF Anti-flicker shoot
hfflickerty	object	HF flicker TV
moviequality	object	Movie recording image quality
highframerate	object	High frame rate setting
moviecropping	object	Movie Cropping
movieformat	object	Movie rec. format
soundrecording	object	Sound recording setting
soundrecording_level	object	Sound recording level
soundrecording_windfilter	object	Wind filter
soundrecording_attenuator	object	Attenuator
recordable	object	Recordable information
liveview	object	Live View settings
effective_value_av	object	Effective AV value
effective_value_tv	object	Effective TV value
effective_value_iso	object	Effective ISO value
effective_value_exposure	object	Effective exposure compensation value
addedcontents	array [string]	[ver.1.0.0 compatible models] URLs of directories and contents added to the storage  [ver.1.1.0 compatible models] Paths of directories and contents added to the storage
deletedcontents	array [string]	[ver.1.0.0 compatible models] Parent URLs of directories and contents deleted from the storage  [ver.1.1.0 compatible models] Paths of directories and contents deleted from the storage
updatedcontents	array [string]	[ver.1.0.0 compatible models] URLs of contents with updated file

		information [ver.1.1.0 compatible models] Paths of directories and contents updated in the storage
cardformat	array [string]	[ver.1.0.0 compatible models] URLs of formatted storage [ver.1.1.0 compatible models] Paths of formatted storage

**JSON example**

- When the Canon camera status or setting values have changed

```
{
    "battery": {
        "name": "LP-E12",
        "kind": "battery",
        "level": "full",
        "quality": "good"
    },
    "exposure": {
        "value": "+0.0",
        "ability": ["-3.0", "-2_2¥/3", "-2_1¥/3", "-2.0", "-1_2¥/3", "-1_1¥/3", "-1.0",
        "-0_2¥/3", "-0_1¥/3", "+0.0", "+0_1¥/3", "+0_2¥/3", "+1.0", "+1_1¥/3", "+1_2¥/3", "+2.0",
        "+2_1¥/3", "+2_2¥/3", "+3.0"]
    },
    "addedcontents": [
        "http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON/IMG_0002.JPG",
        "http://192.168.1.2:8080/ccapi/ver100/contents/sd/101CANON"
    ],
    "deletedcontents": [
        "http://192.168.1.2:8080/ccapi/ver100/contents/sd",
        "http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON"
    ],
    "updatedcontents": [
        "http://192.168.1.2:8080/ccapi/ver100/contents/sd/100CANON/MVI_0003.MP4"
    ]
}
```

- When setting values cannot be changed due to the shooting mode, etc.

```
{
    "exposure": {
        "value": "",
        "ability": []
    },
    "colortemperature": {
        "value": null,
        "ability": {"min":null,"step":null,"max":null}
    }
    "stillimagequality": {
```

```

        "value": {"jpeg": "", "raw": ""},  

        "ability": {"jpeg": [], "raw": []}  

    },  

    "wbshift": {  

        "value": {"mg": null, "ba": null},  

        "ability": {  

            "mg": {"min": null, "step": null, "max": null},  

            "ba": {"min": null, "step": null, "max": null}  

        }  

    }  

}

```

- When an event has not occurred

{}
----

## ■ DELETE

This stops Get Event.

### Example URI

DELETE http://192.168.1.2:8080/ccapi/ver100/event/polling

### Response 200

#### Headers

Header Field	Value
Content-Type	application/json

#### Body

Empty JSON object

#### JSON example

{}
----

## ■ Ver.1.1.0

#### URI

http://[IPAddress]:[Port]/ccapi/[Version]/event/polling[?timeout]

#### URI Parameters

Name	Status	Data Type	Description
timeout	optional	string	Time to wait for an event to occur

**Value of continue**

Name	Description
immediately	no wait (Default value if timeout is not specified)
short	About 10 seconds
long	About 30 seconds

**■ GET**

This starts Get Event.

**Example URI**

GET http://192.168.1.2:8080/ccapi/ver110/event/polling?timeout=immediately

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Of the following JSON Field items, the items with statuses that have changed are returned.

For the data structure of items other than addedcontents, deletedcontents, supplement, updatedcontents, and cardformat, refer to the GET section of each item.

JSON Field	Data Type	Description
storage	object	Storage information
currentstorage	object	Current Storage Information
currentdirectory	object	Current Directory Information
battery	object	Battery information
batterylist	object	Battery information list
lens	object	Lens information
temperature	object	Camera internal temperature
copyright	object	Copyright holder name
author	object	Author name
datetime	object	Date and time
beep	object	Mute setting
displayoff	object	Auto Display Off setting
autopoweroff	object	Auto Power off setting

cardformat	object	Format
recordfunctions_separate	object	Still Image / movie Separate
recordfunctions_stillimage	object	Still Image Rec options
recordfunctions_movie	object	Movie Rec options
cardselection_stillimage	object	Still Image Record/play
cardselection_movie	object	Movie Record/play
moviemode	object	Movie mode
recbutton	object	Movie recording button control
zoom	object	Zoom control
shootingmode	object	Shooting mode details (models without a shooting mode dial)
shootingmodedial	object	Shooting mode dial position (models with a shooting mode dial)
shootingmodedial_movie	object	Movie recording mode details (models with a shooting mode dial)
av	object	AV
tv	object	TV
iso	object	ISO
exposure	object	Exposure compensation
wb	object	White balance
colortemperature	object	Color temperature
afoperation	object	AF operation
afmethod	object	AF method
trackingsetting	object	Subject tracking
shuttermode	object	Shutter Mode
stillimagequality	object	Still image shooting image quality
stillimagecompression_large	object	Still image compression Large
stillimagecompression_medium	object	Still image compression Medium
stillimagecompression_medium1	object	Still image compression Medium1
stillimagecompression_medium2	object	Still image compression Medium2
stillimagecompression_small	object	Still image compression Small
stillimagecompression_small1	object	Still image compression Small1
stillimagecompression_small2	object	Still image compression Small2

hdr	object	Still image HDR settings
stillimageaspectratio	object	Still image aspect ratio
flash	object	Flash
metering	object	Metering mode
drive	object	Continuous shooting mode
aeb	object	Exposure bracket
wbshift	object	WB shift
wbbracket	object	WB bracket
colorspace	object	Color space
picturestyle	object	Picture style kind
picturestyle_auto	object	Picture style (auto)
picturestyle_standard	object	Picture style (standard)
picturestyle_portrait	object	Picture style (portrait)
picturestyle_landscape	object	Picture style (landscape)
picturestyle_finedetail	object	Picture style (finedetail)
picturestyle_neutral	object	Picture style (neutral)
picturestyle_faithful	object	Picture style (faithful)
picturestyle_monochrome	object	Picture style (monochrome)
picturestyle_userdef1	object	Picture style (userdef1)
picturestyle_userdef1_basepicturestyle	object	Base picture style (userdef1)
picturestyle_userdef2	object	Picture style (userdef2)
picturestyle_userdef2_basepicturestyle	object	Base picture style (userdef2)
picturestyle_userdef3	object	Picture style (userdef3)
picturestyle_userdef3_basepicturestyle	object	Base picture style (userdef3)
antiflickershoot	object	Anti-flicker shoot
hfantiflickershoot	object	HF Anti-flicker shoot
hfflickertv	object	HF flicker TV
moviequality	object	Movie recording image quality
highframerate	object	High frame rate setting
moviecropping	object	Movie Cropping
movieformat	object	Movie rec. format
soundrecording	object	Sound recording setting
soundrecording_level	object	Sound recording level
soundrecording_windfilter	object	Wind filter

soundrecording_attenuator	object	Attenuator
recordable	object	Recordable information
liveview	object	Live View settings
effective_value_av	object	Effective AV value
effective_value_tv	object	Effective TV value
effective_value_iso	object	Effective ISO value
effective_value_exposure	object	Effective exposure compensation value
addedcontents	array [string]	[ver.1.0.0 compatible models] URLs of directories and contents added to the storage [ver.1.1.0 compatible models] Paths of directories and contents added to the storage [ver.1.2.0 compatible models] Paths of directories and contents added to the storage
deletedcontents	array [string]	[ver.1.0.0 compatible models] Parent URLs of directories and contents deleted from the storage [ver.1.1.0 compatible models] Paths of directories and contents deleted from the storage [ver.1.2.0 compatible models] Paths of directories and contents deleted from the storage
supplement	array [string]	The storage directory was not deleted
updatedcontents	array [string]	[ver.1.0.0 compatible models] URLs of contents with updated file information [ver.1.1.0 compatible models] Paths of directories and contents updated in the storage [ver.1.2.0 compatible models]

		Paths of directories and contents updated in the storage
cardformat	array [string]	[ver.1.0.0 compatible models] URLs of formatted storage [ver.1.1.0 compatible models] Paths of formatted storage [ver.1.2.0 compatible models] Paths of formatted storage

**JSON example**

- When the Canon camera status or setting values have changed

```
{
  "battery": {
    "name": "LP-E12",
    "kind": "battery",
    "level": "full",
    "quality": "good"
  },
  "exposure": {
    "value": "+0.0",
    "ability": ["-3.0", "-2_2¥/3", "-2_1¥/3", "-2.0", "-1_2¥/3", "-1_1¥/3", "-1.0", "-0_2¥/3", "-0_1¥/3", "+0.0", "+0_1¥/3", "+0_2¥/3", "+1.0", "+1_1¥/3", "+1_2¥/3", "+2.0", "+2_1¥/3", "+2_2¥/3", "+3.0"]
  }
}
```

- When setting values cannot be changed due to the shooting mode, etc.

```
{
  "exposure": {
    "value": "",
    "ability": []
  },
  "colortemperature": {
    "value": null,
    "ability": {"min":null,"step":null,"max":null}
  },
  "stillimagequality": {
    "value": [{"jpeg":"","raw":""}],
    "ability": [{"jpeg":[],"raw":[]}]
  },
  "wbshift": {
    "value": {"mg":null,"ba":null},
    "ability": {
      "mg": {"min":null,"step":null,"max":null},
      "ba": {"min":null,"step":null,"max":null}
    }
  }
}
```

- When an event has not occurred
- {}

## ■ **DELETE**

This stops Get Event.

### **Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver110/event/polling

### **Response 200**

#### **Headers**

Header Field	Value
Content-Type	application/json

#### **Body**

Empty JSON object

#### **JSON example**

{}

### 4.13.2. monitoring

#### URI

`http://[IPAddress]:[Port]/ccapi/[Version]/event/monitoring`

#### ■ GET

This starts Get Event in chunk format.

#### Example URI

GET `http://192.168.1.2:8080/ccapi/ver100/event/monitoring`

#### Response 200

##### Headers

Header Field	Value
Content-Type	application/octet-stream
transfer-encoding	chunked

##### Body

Binary data comprising “Event Data (Binary)” of “5. Data Format” hereafter.

##### Chunked example

```
<Chunk data size (Hex)>
<Event Data (Binary)>
<Chunk data size (Hex)>
<Event Data (Binary)>
...
...
0
```

#### Response 503

##### Headers

Header Field	Value
Content-Type	application/json

##### Body

JSON Field	Data Type	Description
message	string	Message

##### Message description

Message	Description

Already started	Processing has already started. - This API was called in the state with Get Event already started by this API.
-----------------	---

**JSON example**

```
{
  "message": "Already started"
}
```

**■ DELETE**

This stops Get Event in chunk format.

**Example URI**

DELETE http://192.168.1.2:8080/ccapi/ver100/event/monitoring

**Response 200****Headers**

Header Field	Value
Content-Type	application/json

**Body**

Empty JSON object

**JSON example**

```
{}
```

**Response 503****Headers**

Header Field	Value
Content-Type	application/json

**Body**

JSON Field	Data Type	Description
message	string	Message

**Message description**

Message	Description
Not started	Get Event has not started.

**JSON example**

```
{  
    "message": "Not started"  
}
```

## 5. Data Format

### 5.1. Live View Data

LiveView Data (Binary)

Name	Size (byte)	Description
Start Byte	2	Start of data - 0xFF, 0x00
Data Type	1	Data type - 0x00 : Live View image - 0x01 : Live View incidental information
Data Size	4	Size of the data designated by Data Type
Data	*	Data body designated by Data Type - Live View image: Binary data - Live View incidental information: JSON object * For details, refer to "LiveView incidental data" hereafter.
End Byte	2	End of data - 0xFF, 0xFF

## 5.2. Live View Incidental Information

Coordinate information can be acquired using the number of pixels of the still image large size as the reference.

### LiveView incidental data (JSON)

JSON Field	Data Type	Description
liveviewdata	Object of liveviewdata	Live View data
angleinformation	Object of angleinformation	Electronic level information

#### Object of liveviewdata

JSON Field	Data Type	Description
histogram	array [array [integer]]	Histogram (YRGB)*256
afframe	array [Object of afframe]	Selectable focus frame list information
image	Object of image	Live View image information(*1)
visible	Object of visible	Visible range information(*1)
zoom	Object of zoom	Zoom information(*1)
diorama	Object of diorama	Diorama information(*1)
systemtime	Object of systemtime	System time when getting a Live View image

(\*1)

The coordinate positions and size informations to be getted are the coordinates that use the number of pixels of the still image large size as the reference.

#### Object of afframe

JSON Field	Data Type	Description																		
status	integer	<p>Focus status</p> <table border="1"> <thead> <tr> <th>Value (Hex)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0x01</td> <td>Focus OK</td> </tr> <tr> <td>0x02</td> <td>Focus NG</td> </tr> <tr> <td>0x03</td> <td>Movie servo AF OFF</td> </tr> <tr> <td>0x04</td> <td>Servo AF in progress</td> </tr> <tr> <td>0x10</td> <td>Normal</td> </tr> <tr> <td>0x20</td> <td>Face</td> </tr> <tr> <td>0x30</td> <td>AF tracking</td> </tr> <tr> <td>0x00</td> <td>Standby</td> </tr> </tbody> </table>	Value (Hex)	Description	0x01	Focus OK	0x02	Focus NG	0x03	Movie servo AF OFF	0x04	Servo AF in progress	0x10	Normal	0x20	Face	0x30	AF tracking	0x00	Standby
Value (Hex)	Description																			
0x01	Focus OK																			
0x02	Focus NG																			
0x03	Movie servo AF OFF																			
0x04	Servo AF in progress																			
0x10	Normal																			
0x20	Face																			
0x30	AF tracking																			
0x00	Standby																			

select	integer	Selection status						
		<table border="1"><thead><tr><th>Value (Hex)</th><th>Description</th></tr></thead><tbody><tr><td>0x00</td><td>Not selected</td></tr><tr><td>0x01</td><td>Selected</td></tr><tr><td>0x02</td><td>Not selectable</td></tr></tbody></table>	Value (Hex)	Description	0x00	Not selected	0x01	Selected
Value (Hex)	Description							
0x00	Not selected							
0x01	Selected							
0x02	Not selectable							
x								
X coordinate of frame upper left corner								
y	integer	Y coordinate of frame upper left corner						
width	integer	Frame width						
height	integer	Frame height						

**Object of image**

JSON Field	Data Type	Description
positionx	integer	Live View image cropping coordinate (X coordinate)
positiony	integer	Live View image cropping coordinate (Y coordinate)
positionwidth	integer	Live View image cropping coordinate (width)
positionheight	integer	Live View image cropping coordinate (height)
sizex	integer	Size information (width) on the sensor relative to the Live View image * Same as the still image large size
sizey	integer	Size information (height) on the sensor relative to the Live View image * Same as the still image large size

**Object of visible**

JSON Field	Data Type	Description
positionx	integer	Visible range coordinate (X coordinate)
positiony	integer	Visible range coordinate (Y coordinate)
positionwidth	integer	Visible range coordinate (width)
positionheight	integer	Visible range coordinate (height)

**Object of zoom**

JSON Field	Data Type	Description
magnification	integer	Magnification
positionx	integer	Rangefinder frame (X coordinate)

positiony	integer	Rangefinder frame (Y coordinate)
positionwidth	integer	Rangefinder frame (width)
positionheight	integer	Rangefinder frame (height)

**Object of diorama**

JSON Field	Data Type	Description
positionx	integer	Diorama frame information (X coordinate)
positiony	integer	Diorama frame information (Y coordinate)
positionwidth	integer	Diorama frame information (width)
positionheight	integer	Diorama frame information (height)

**Object of systemtime**

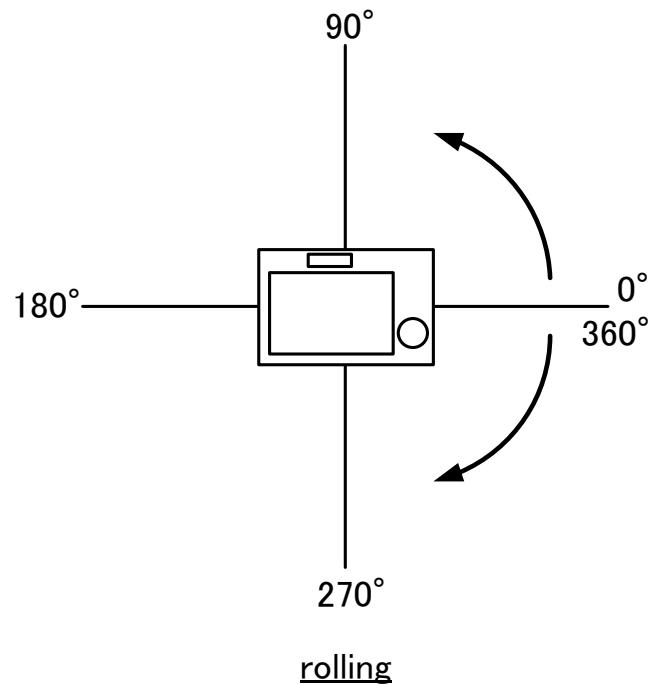
JSON Field	Data Type	Description
sec	integer	Year/month/day/hour/minute/second (sec)
subsec	integer	Sub-second (msec)

**Object of angleinformation**

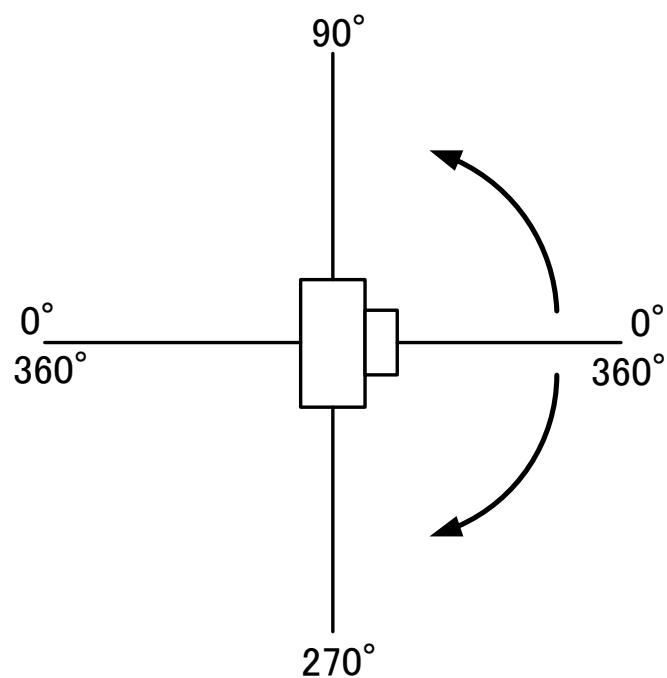
JSON Field	Data Type	Description												
cameraposture	integer	Camera posture <table border="1"> <thead> <tr> <th>Value (Hex)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0x00</td> <td>Horizontal position</td> </tr> <tr> <td>0x01</td> <td>Grip on top</td> </tr> <tr> <td>0x02</td> <td>Grip on bottom</td> </tr> <tr> <td>0x03</td> <td>Unable to determine posture with HV sensor</td> </tr> <tr> <td>0x04</td> <td>Pentaprism facing downward (upside-down)</td> </tr> </tbody> </table>	Value (Hex)	Description	0x00	Horizontal position	0x01	Grip on top	0x02	Grip on bottom	0x03	Unable to determine posture with HV sensor	0x04	Pentaprism facing downward (upside-down)
Value (Hex)	Description													
0x00	Horizontal position													
0x01	Grip on top													
0x02	Grip on bottom													
0x03	Unable to determine posture with HV sensor													
0x04	Pentaprism facing downward (upside-down)													
rolling	integer	Rolling (inclination) angle (1/100 deg) (*2)(*3)												
pitching	integer	Pitching (tilt) angle (1/100 deg) (*2)(*3)												

(\*2)

The rolling and pitching angle information change as shown in the following figures. The rolling figure shows a Canon camera with the camera display facing the viewer, and the pitching figure shows a Canon camera with the lens facing right.



rolling



pitching

(\*3)

The rolling and pitching angle information does not guarantee a close point of view. Please use this information for a reference value.



**JSON example**

```
{  
    "liveviewdata": {  
        "histogram": [  
            [1, 20, 56, 188, 379, ... 10, 7, 8, 21],  
            [4, 28, 93, 184, 358, ... 12, 6, 6, 24],  
            [23, 50, 93, 150, 236, ... 18, 5, 6, 29],  
            [187, 197, 235, 260, 264, ... 19, 17, 10, 20]  
        ],  
        "afframe": [  
            {"status": 0, "select": 1, "x": 1193, "y": 884, "width": 932, "height": 700},  
            ...  
        ]  
        "image": {  
            "positionx": 0,  
            "positiony": 320,  
            "positionwidth": 6264,  
            "positionheight": 3515,  
            "sizex": 6264,  
            "sizey": 4155,  
        }  
        "visible": {  
            "positionx": 0,  
            "positiony": 320,  
            "positionwidth": 6264,  
            "positionheight": 3515,  
        }  
        "zoom": {  
            "magnification": 1,  
            "positionx": 0,  
            "positiony": 320,  
            "positionwidth": 6264,  
            "positionheight": 3515,  
        }  
        "diorama": {  
            "positionx": 0,  
            "positiony": 320,  
            "positionwidth": 6264,  
            "positionheight": 3515,  
        }  
        "systemtime": {  
            "sec": 1234567,  
            "subsec": 456,  
        }  
    },  
    "angleinformation": {  
        "cameraposture": 0,  
        "rolling": 0,  
        "pitching": 2  
    }  
}
```

### 5.3. Event Data

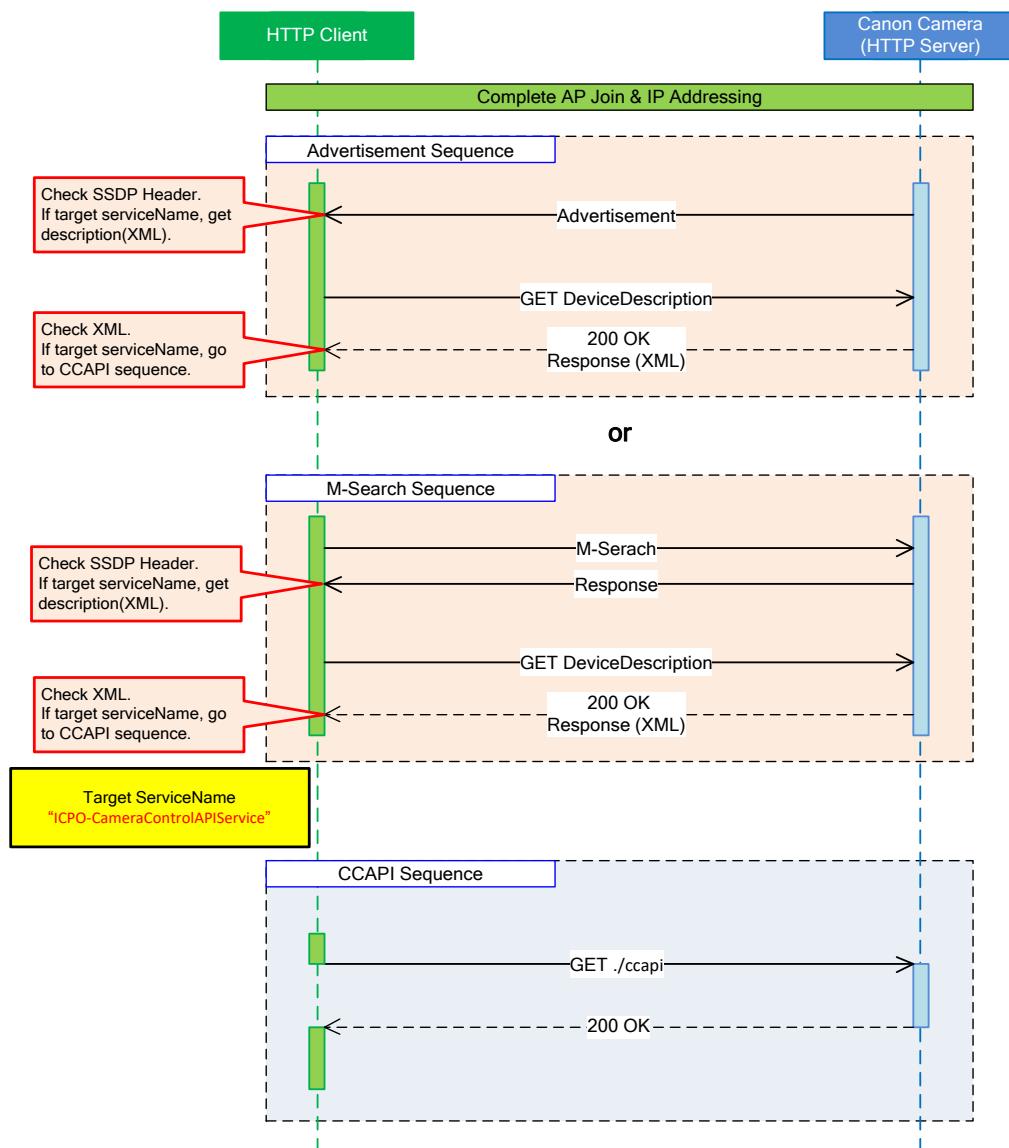
#### Event Data (Binary)

Name	Size (byte)	Description
Start Byte	2	Start of data - 0xFF, 0x00
Data Type	1	Data type - 0x02 : Event data
Data Size	4	Size of data designated by Data Type
Data	*	Data body designated by Data Type - Event data: JSON object * Same as the JSON object that can be acquired by the GET method of “polling”.
End Byte	2	End of data - 0xFF, 0xFF

## 6. Appendix

### 6.1. Discovery Sequence

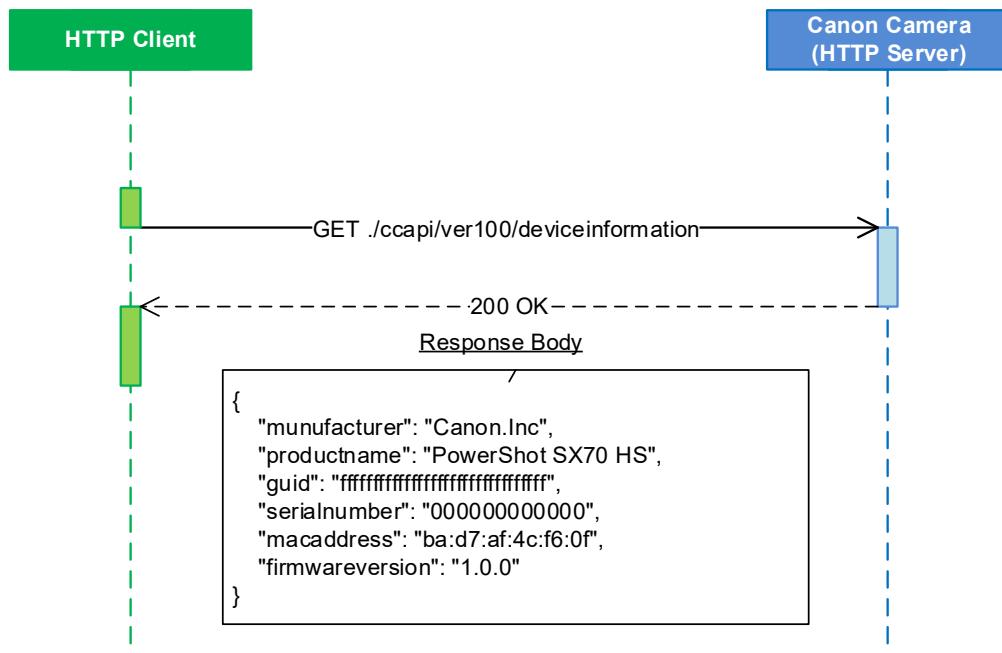
The Discovery specification sequence supported by Canon cameras is shown below.



## 6.2. CCAPI Sequences

Typical sequences that use the API supported by Canon cameras to operate a camera are shown below.

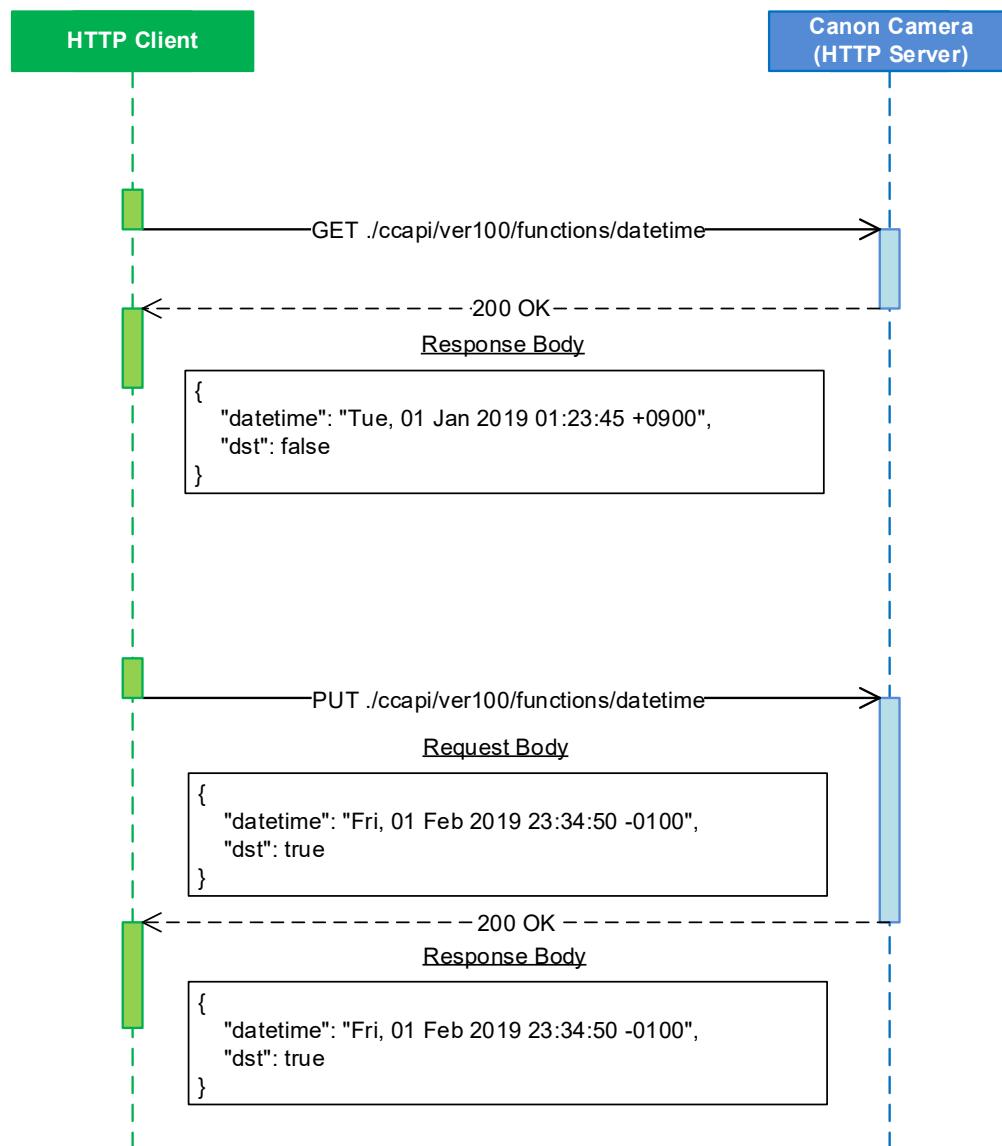
### 6.2.1. Get camera information



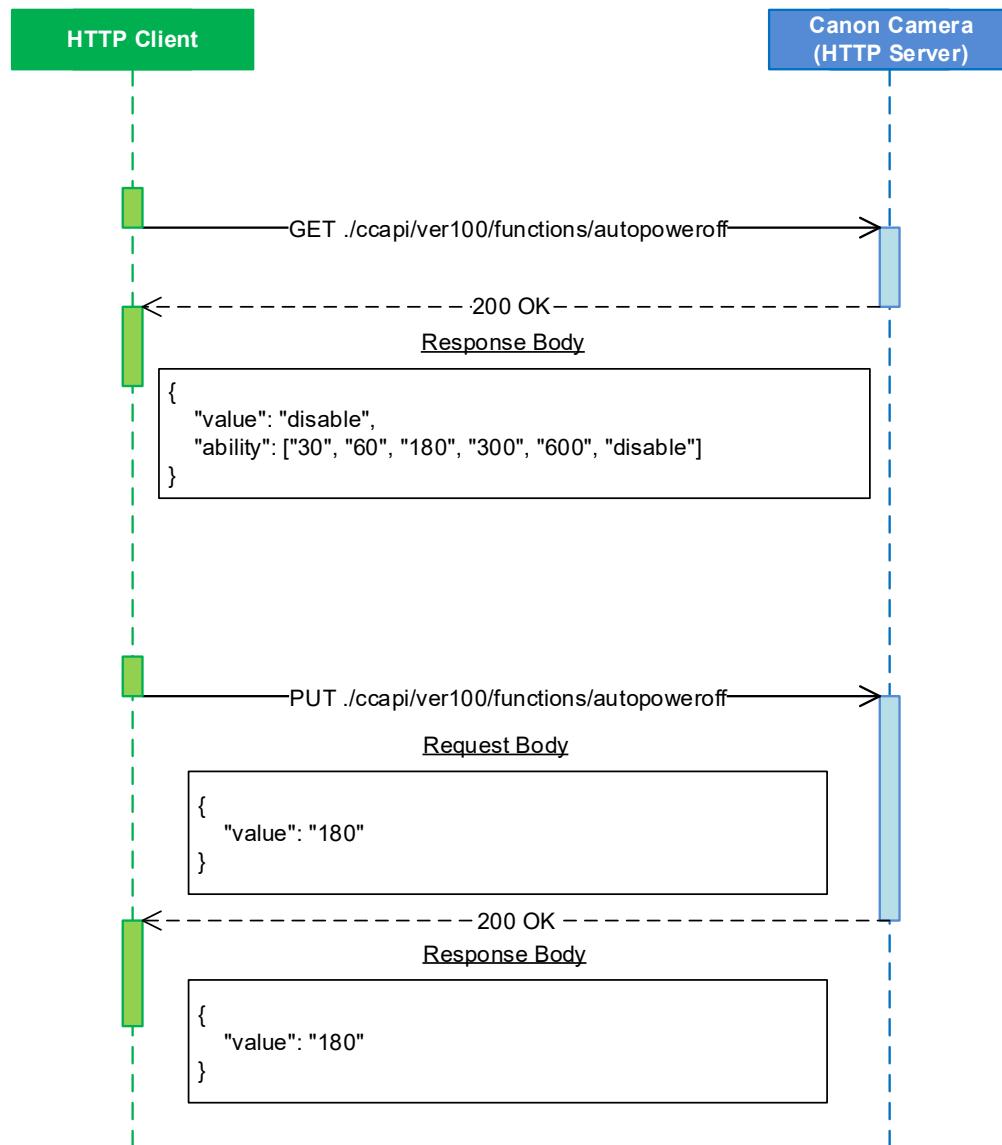
### 6.2.2. Get storage information



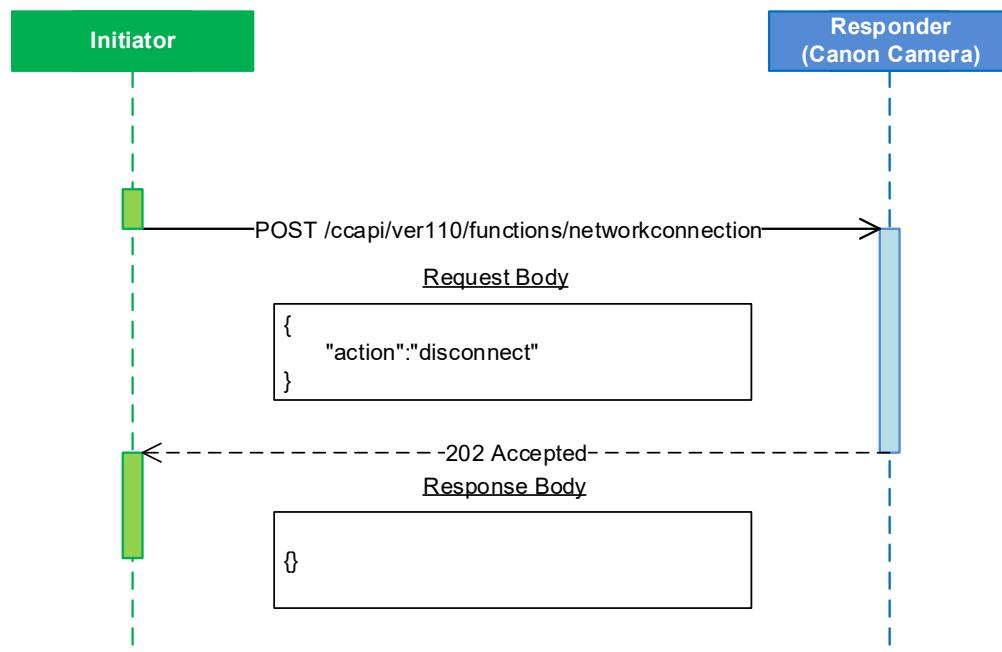
### 6.2.3. Get/change date and time settings



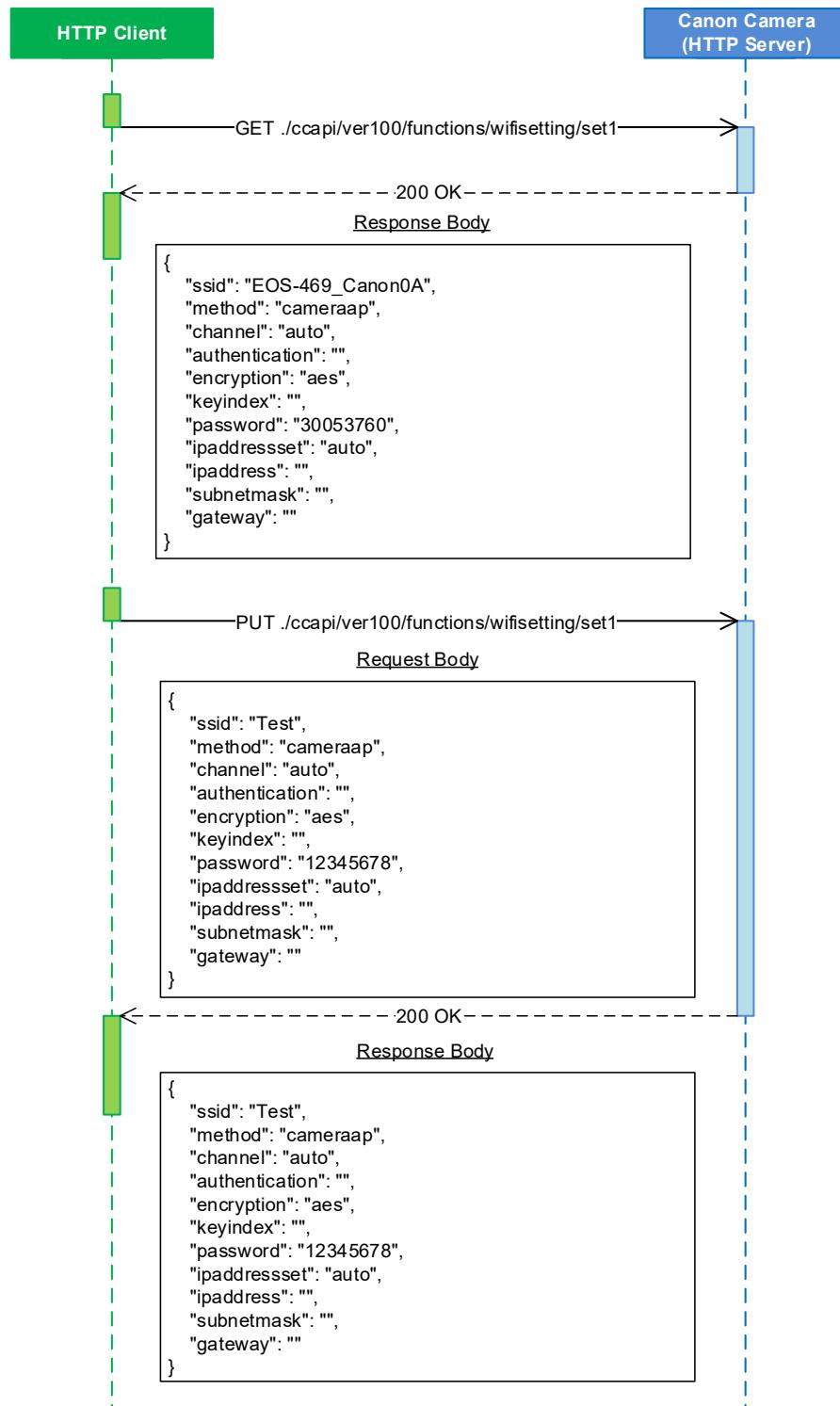
#### 6.2.4. Get/change Auto Power off setting



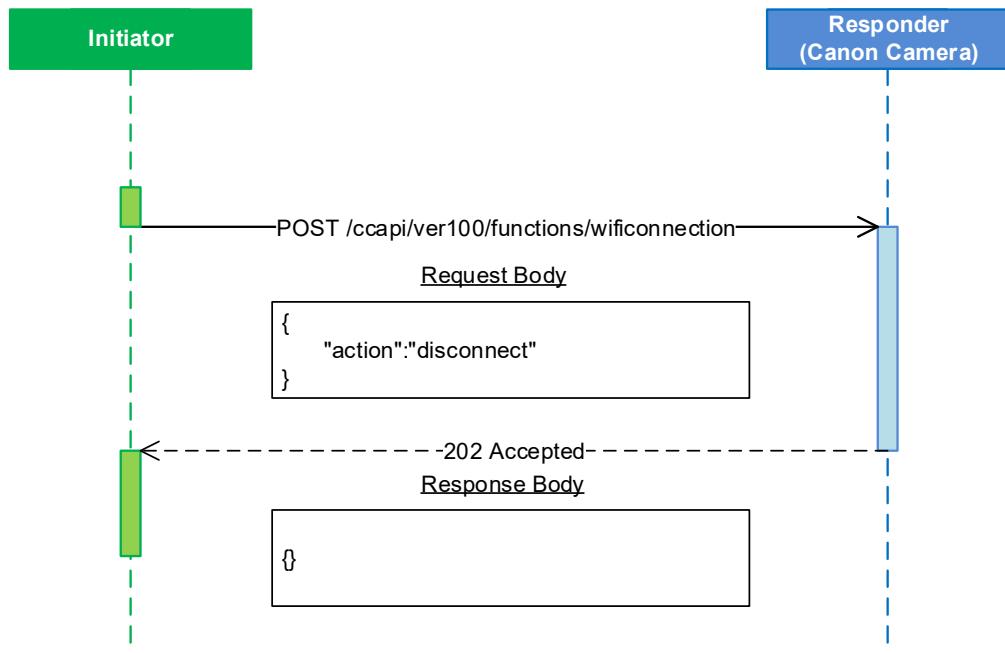
### 6.2.5. Execute network disconnect



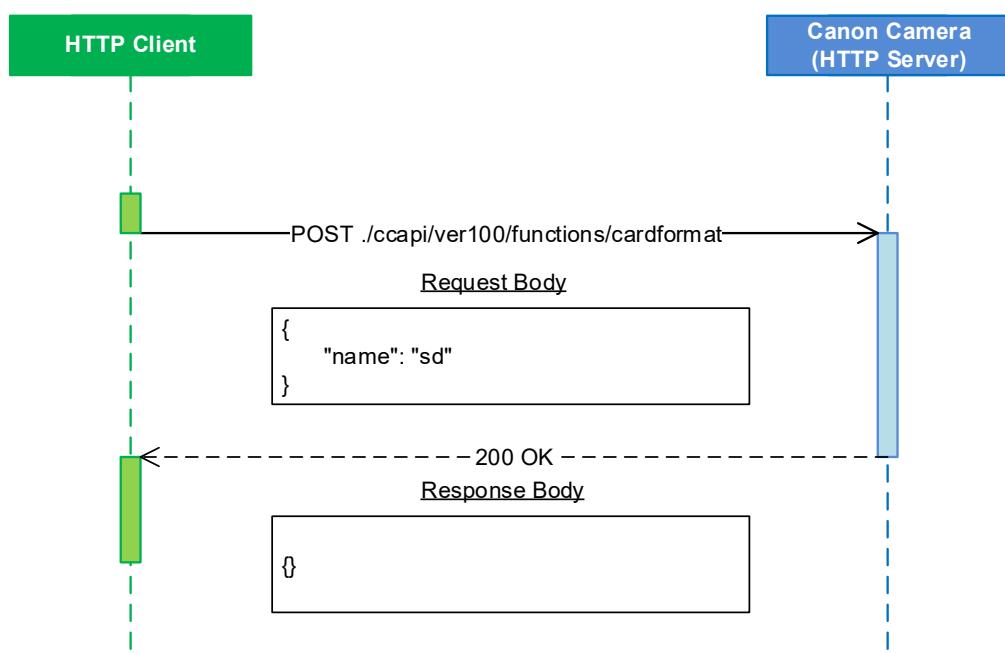
### 6.2.6. Get/change Wi-Fi connection settings



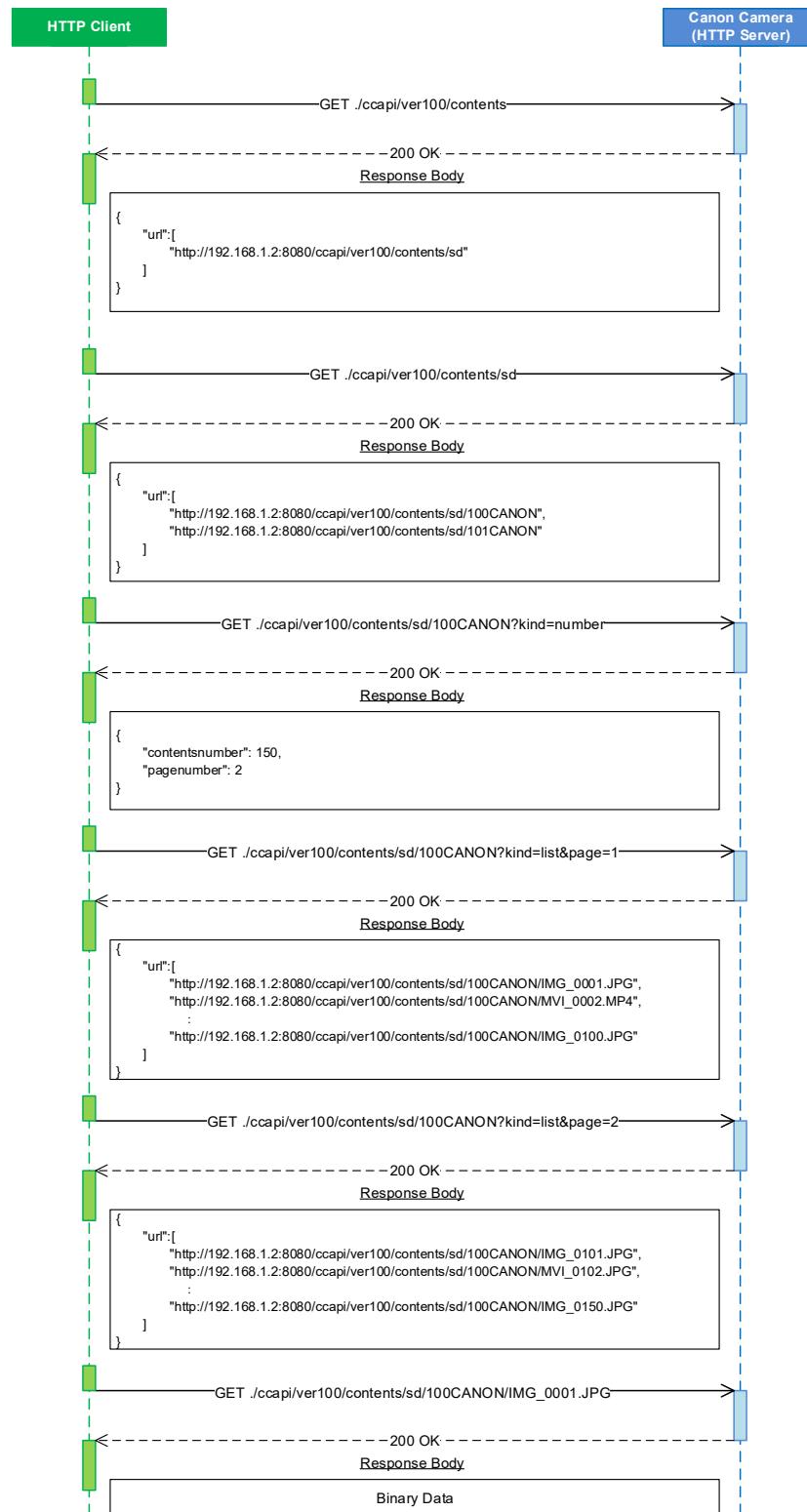
### 6.2.7. Execute Wifi disconnect



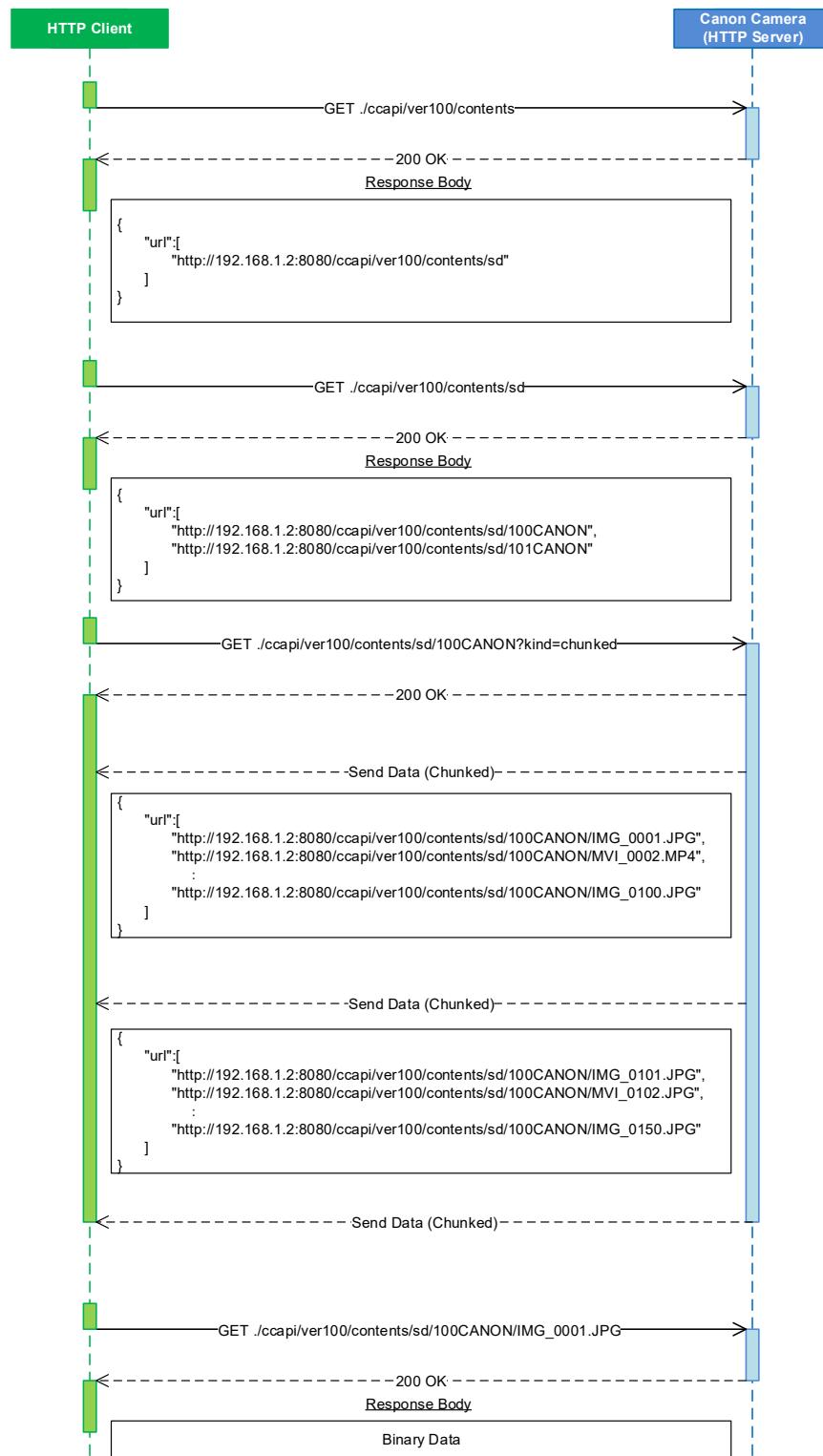
### 6.2.8. Execute formatting



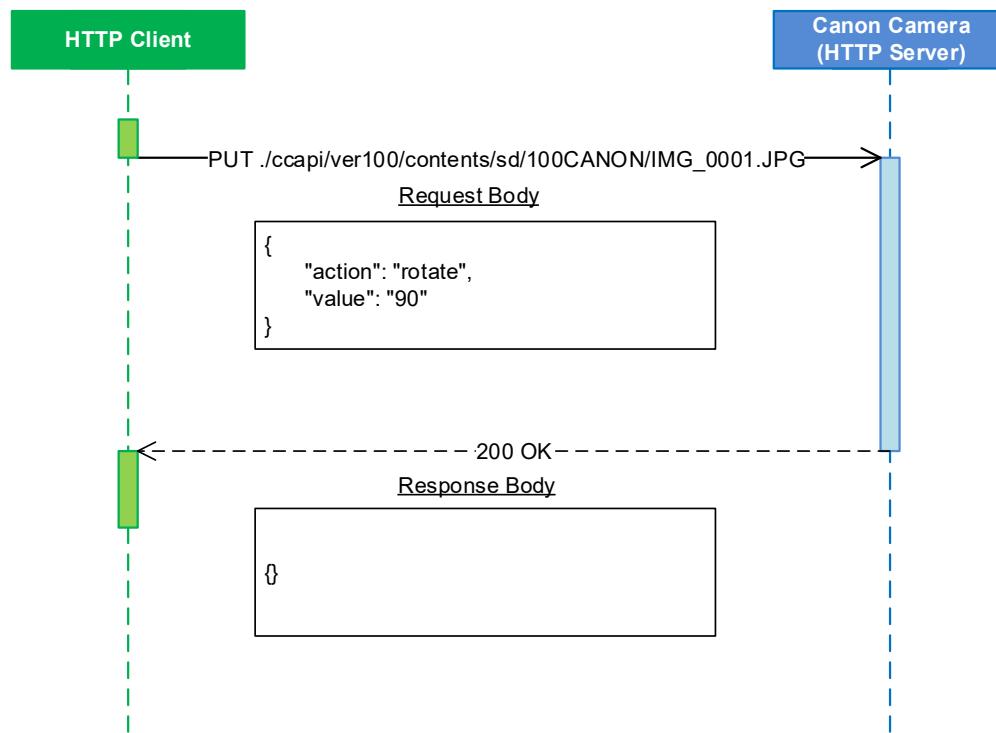
### 6.2.9. Get contents (list)



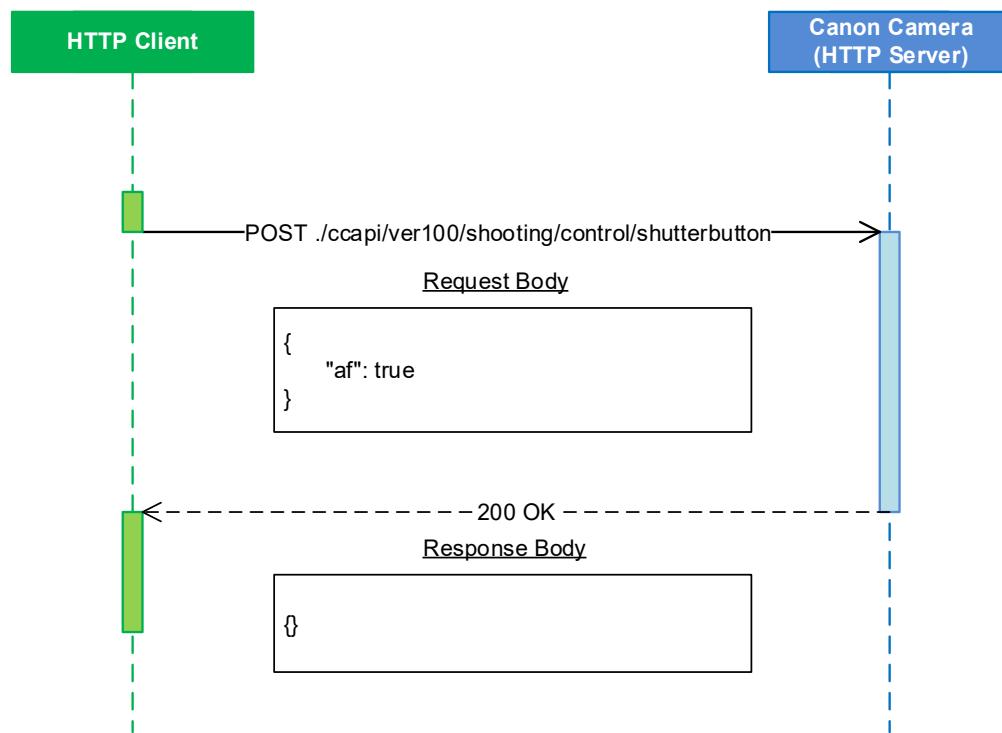
### 6.2.10. Get contents (chunk format)



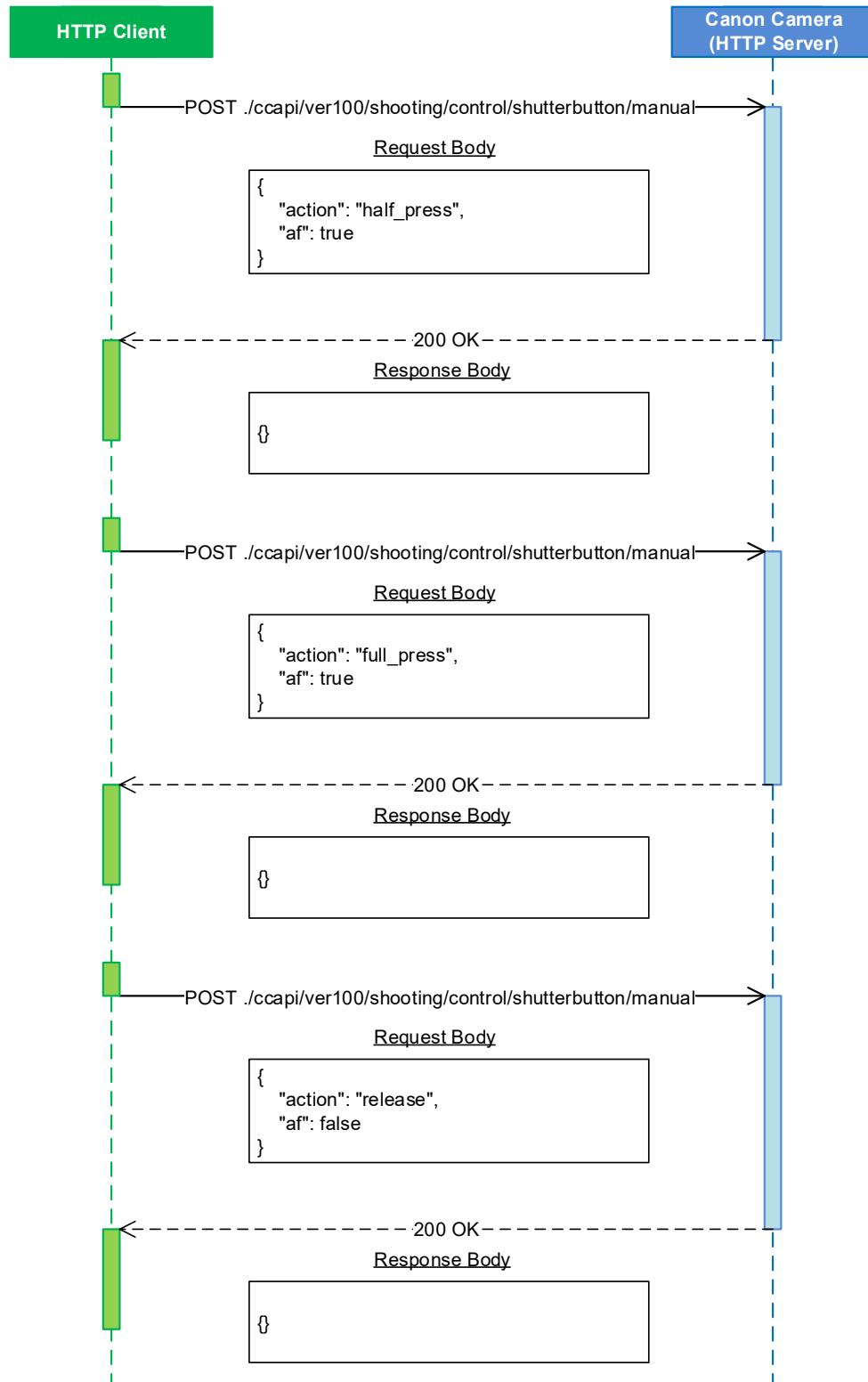
### 6.2.11. Modify contents



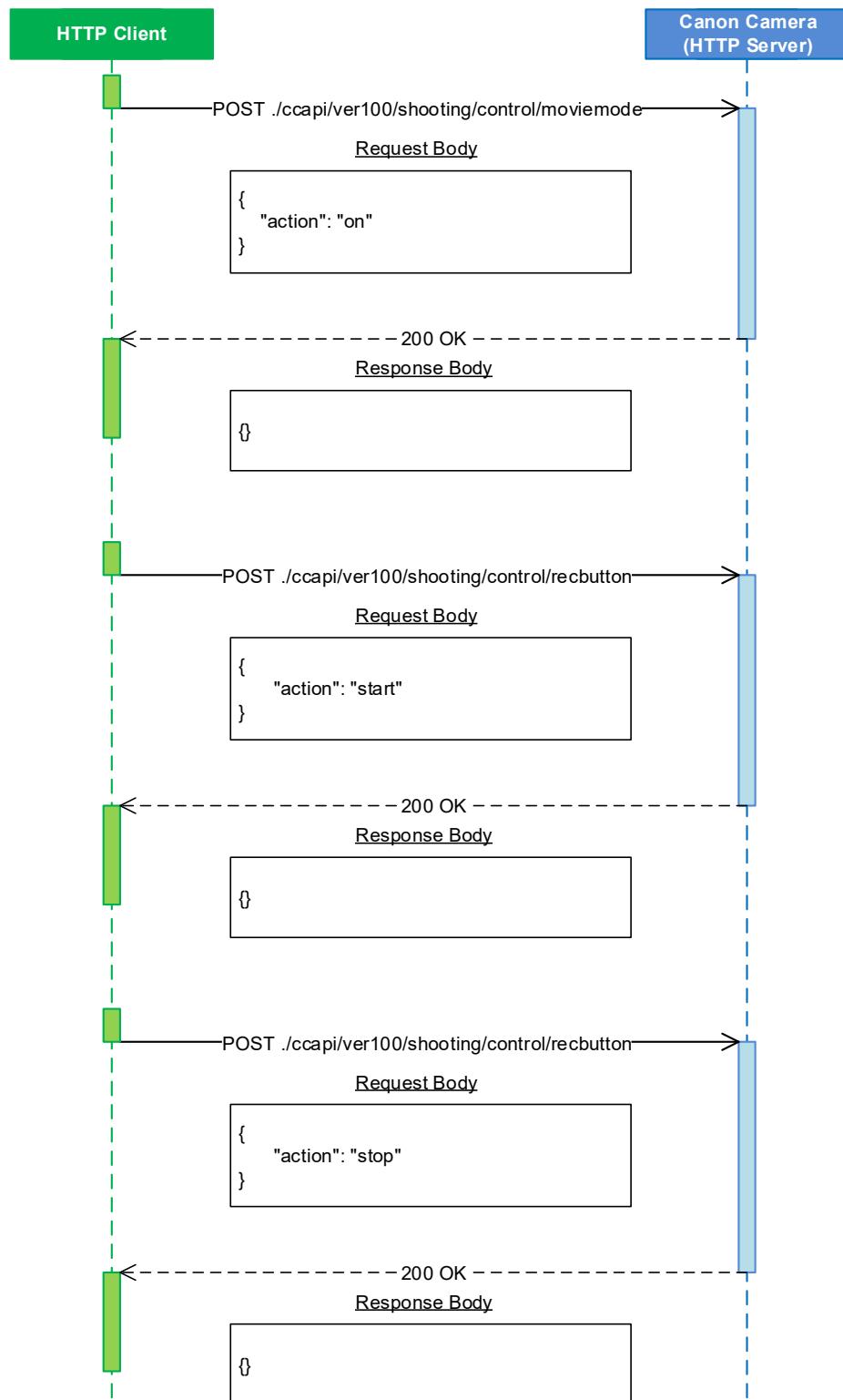
### 6.2.12. Shoot still image



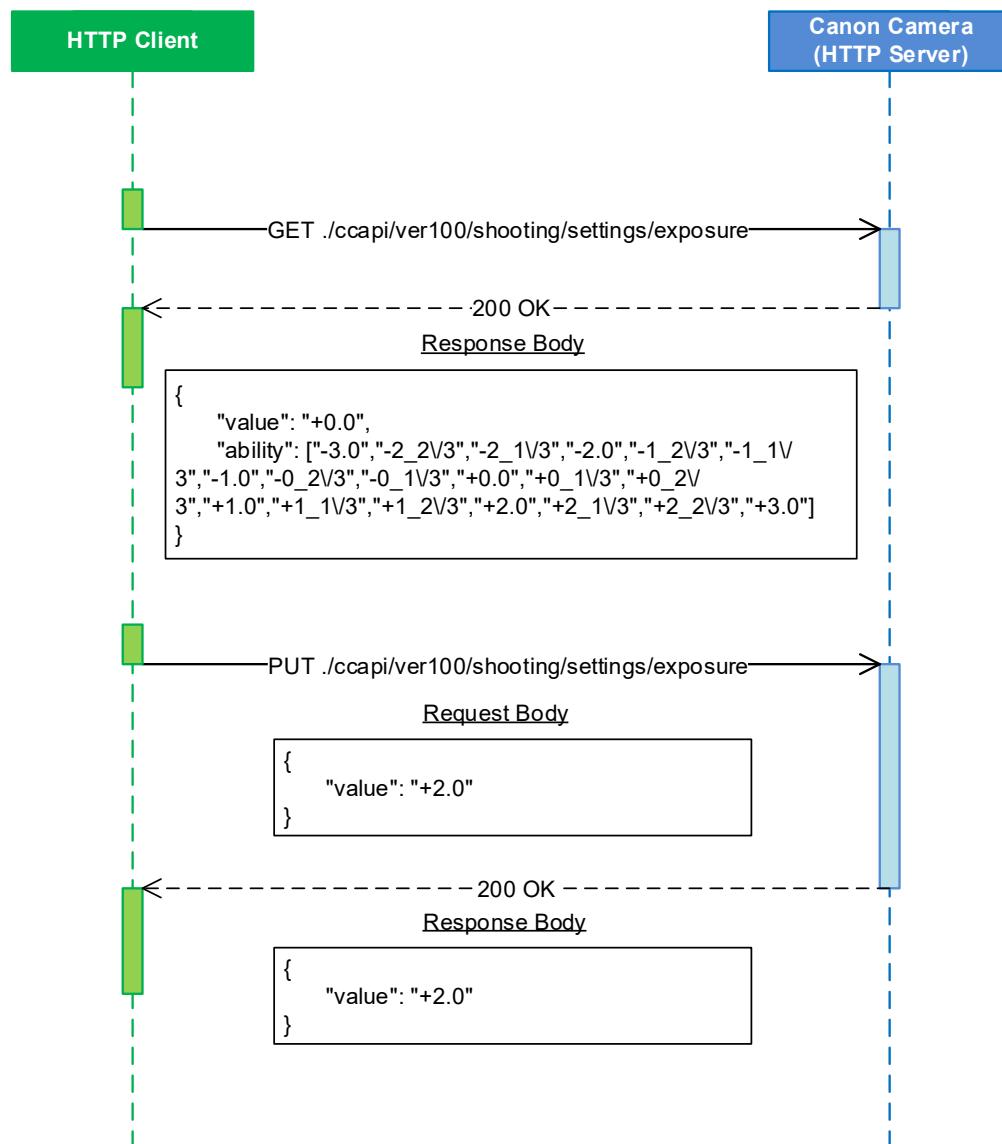
### 6.2.13. Still image shutter button control



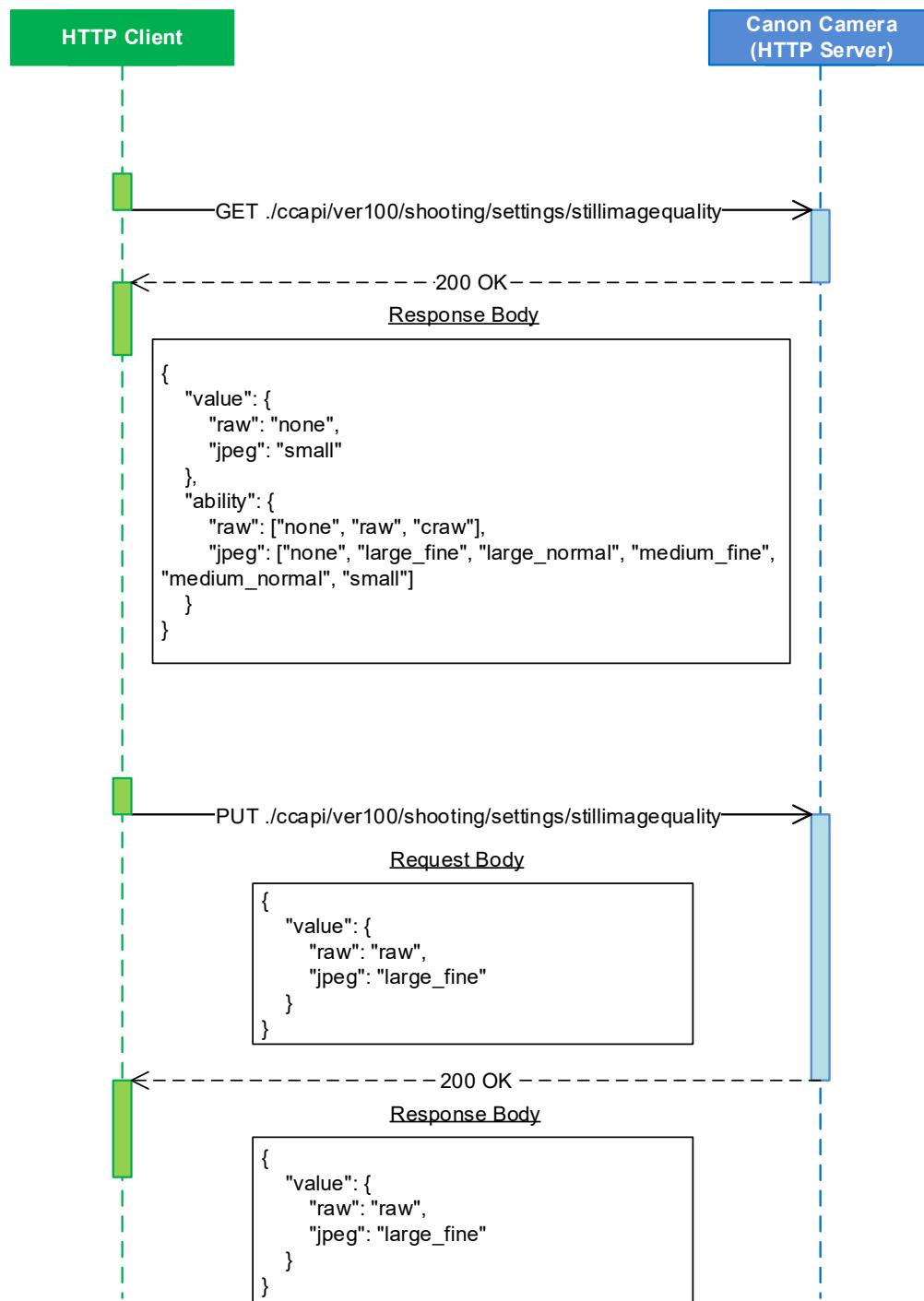
### 6.2.14. Start/stop movie recording



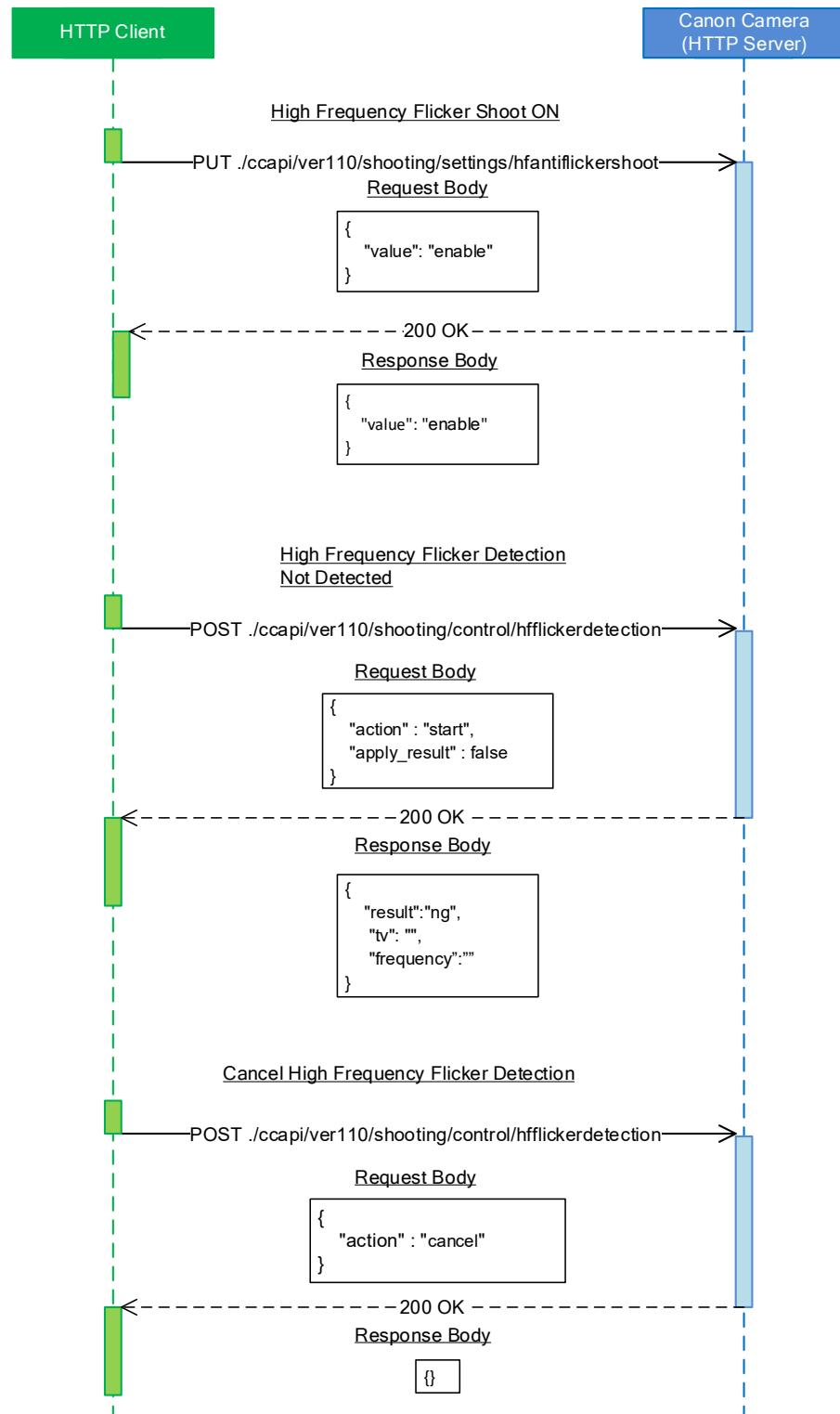
### 6.2.15. Get/change shooting settings



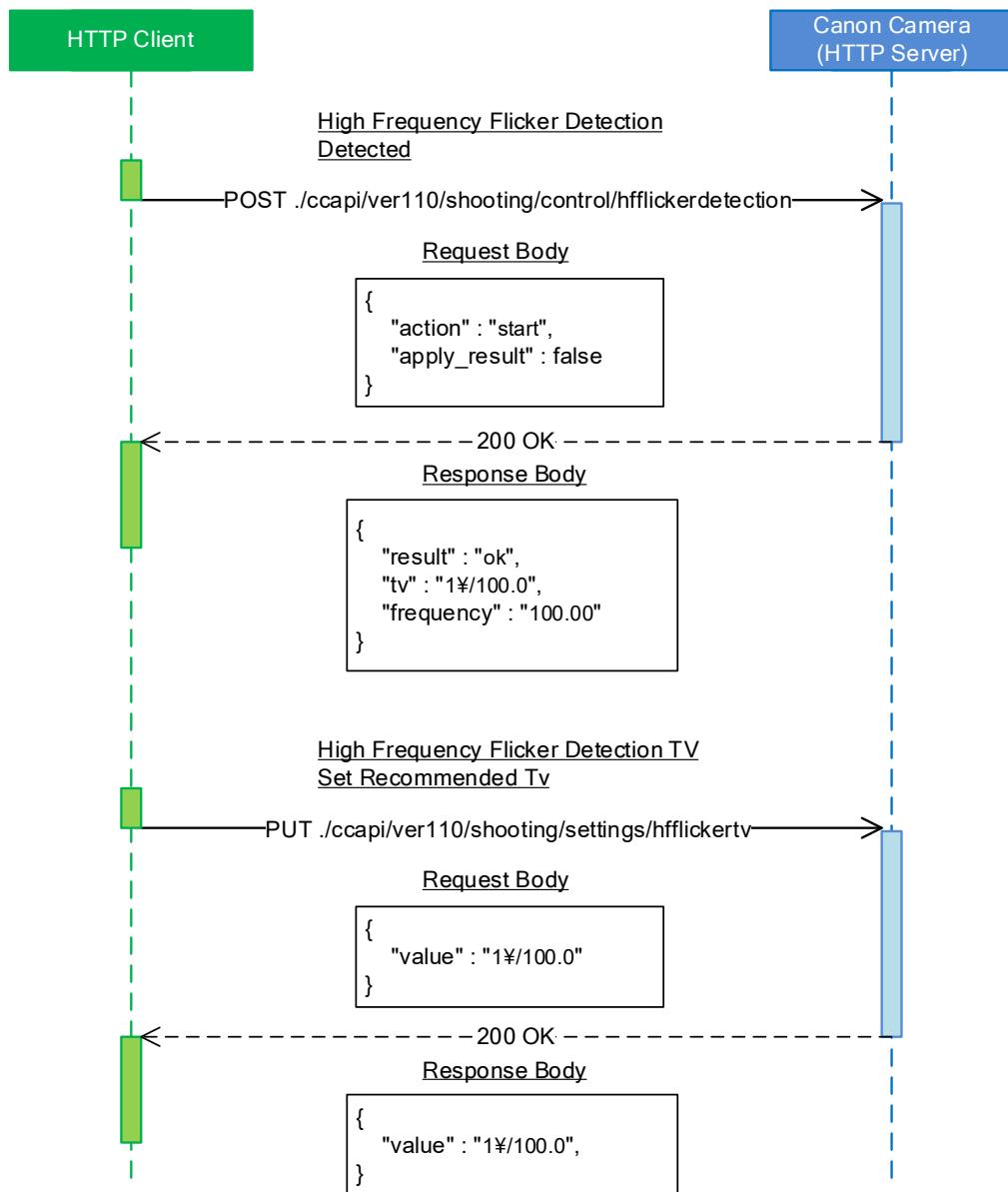
### 6.2.16. Get/change still image shooting image quality



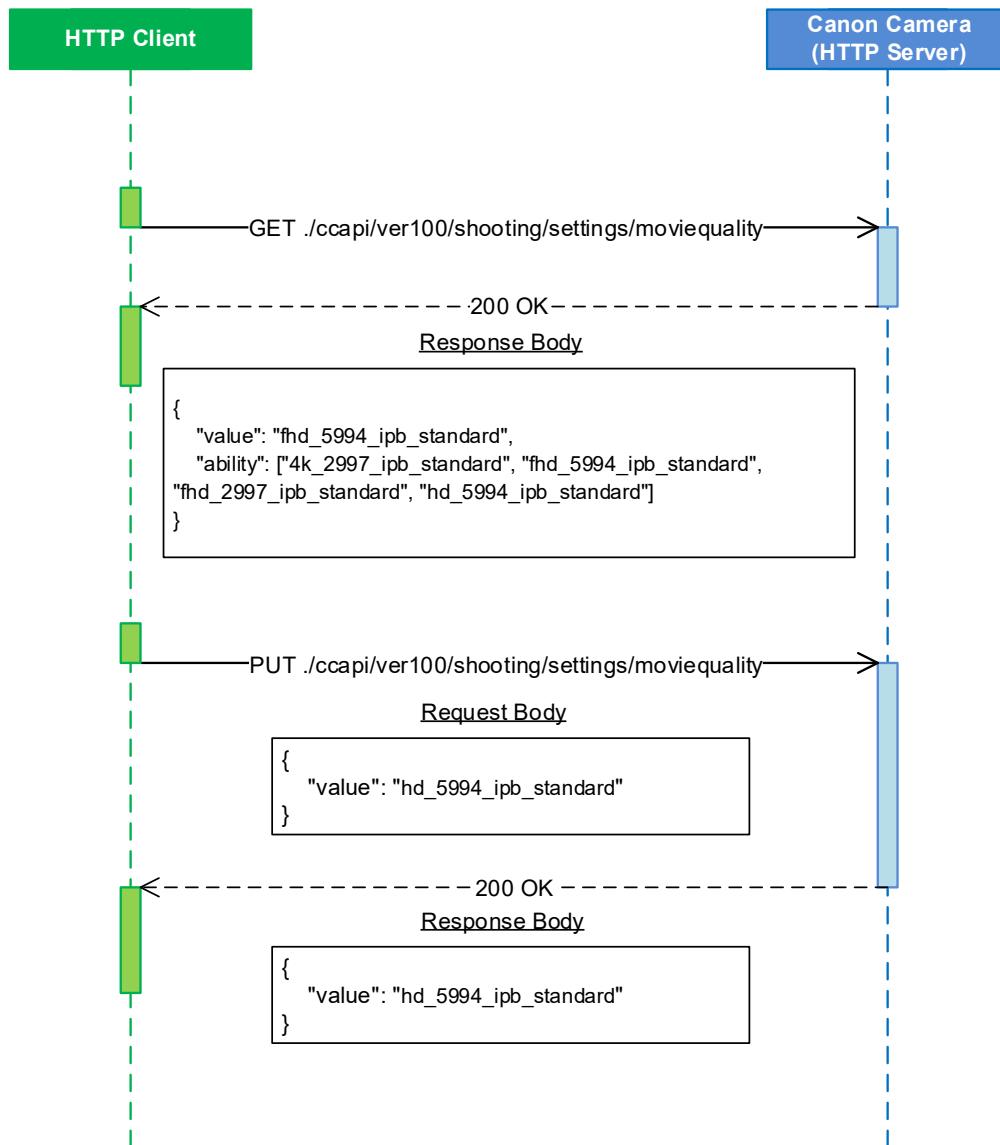
### 6.2.17. HF flicker



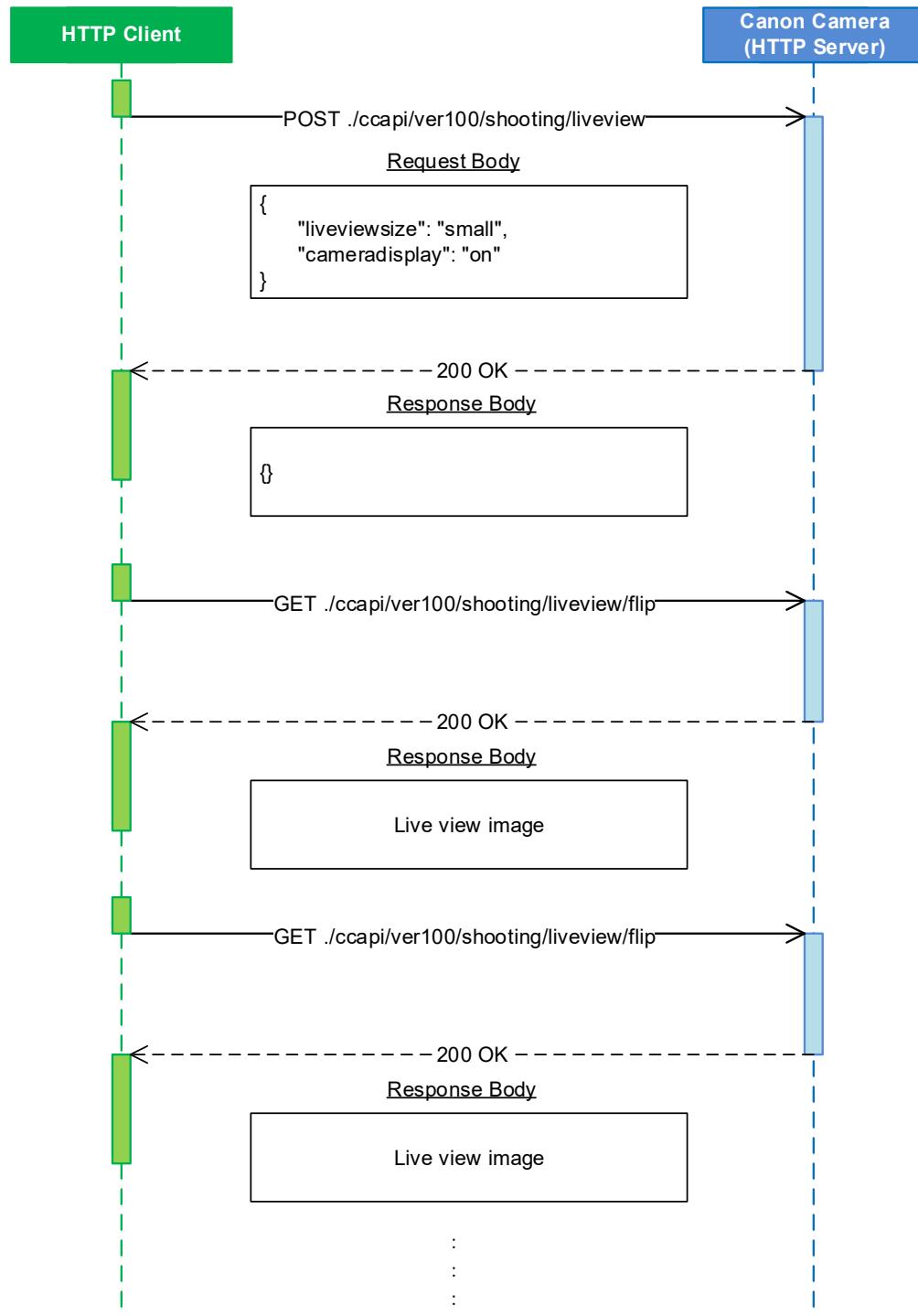
### 6.2.18. HF flicker detection (Setting Recommended Tv Value)



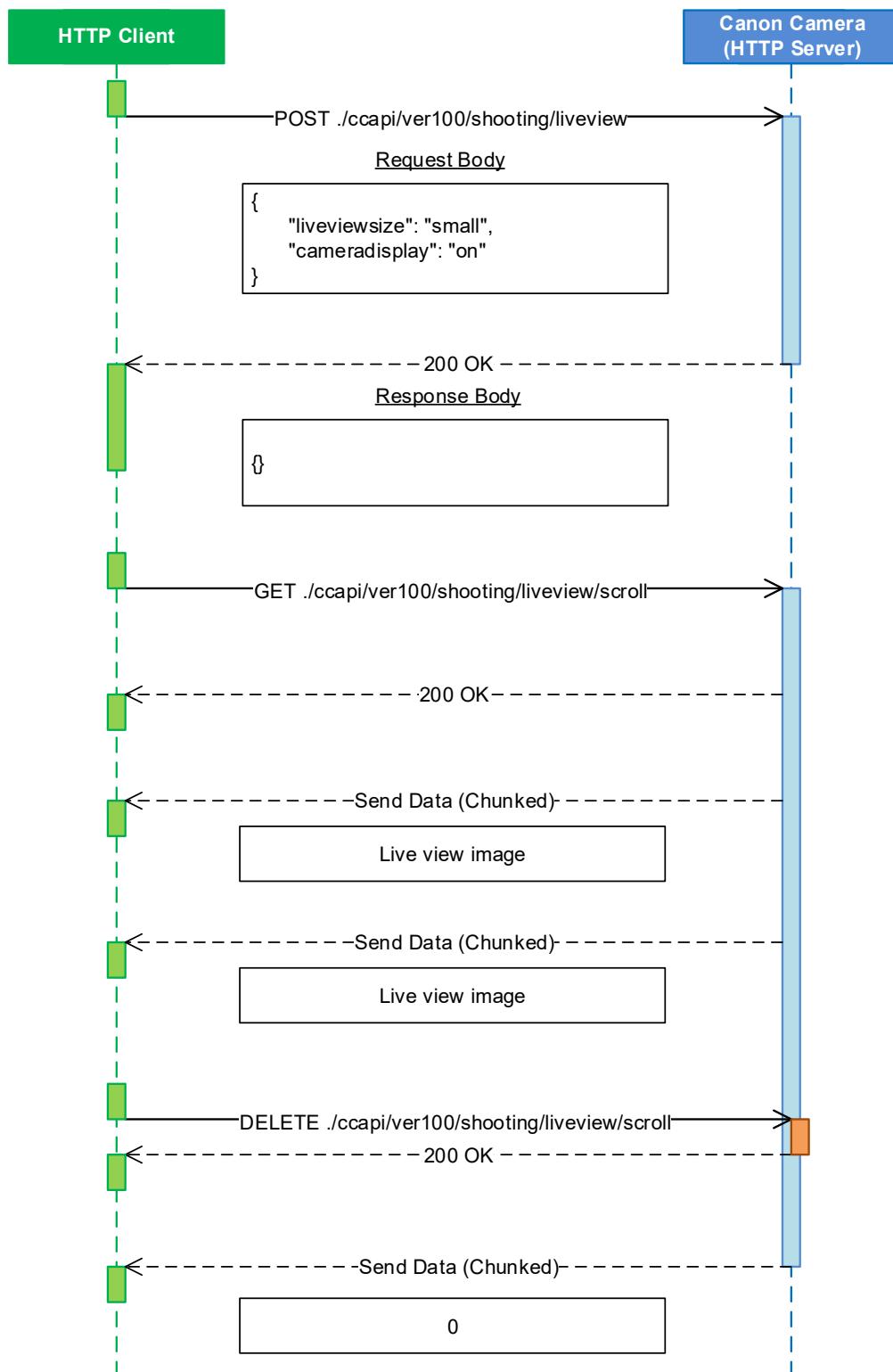
### 6.2.19. Get/change movie recording image quality



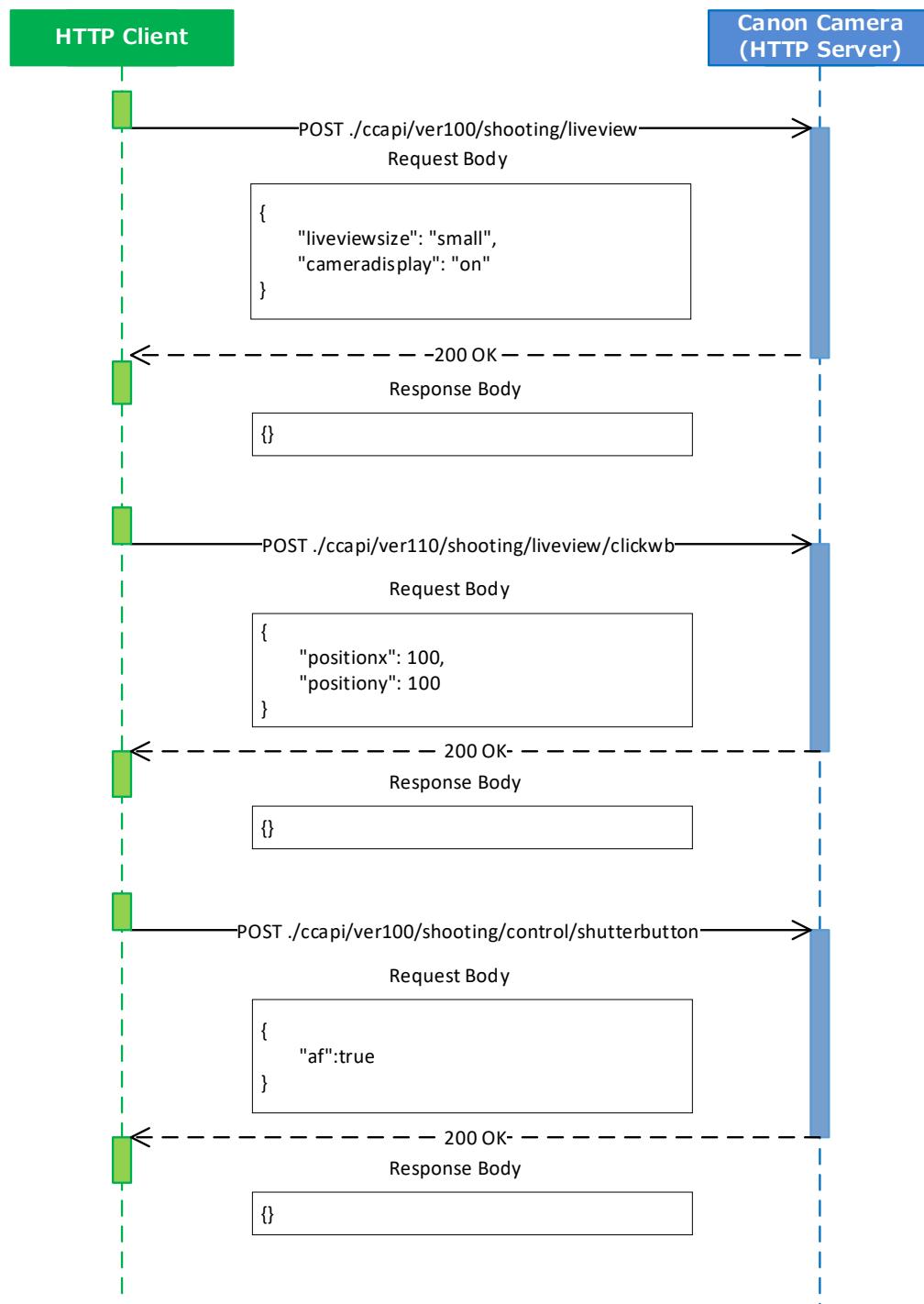
### 6.2.20. Get Live View image (flip)



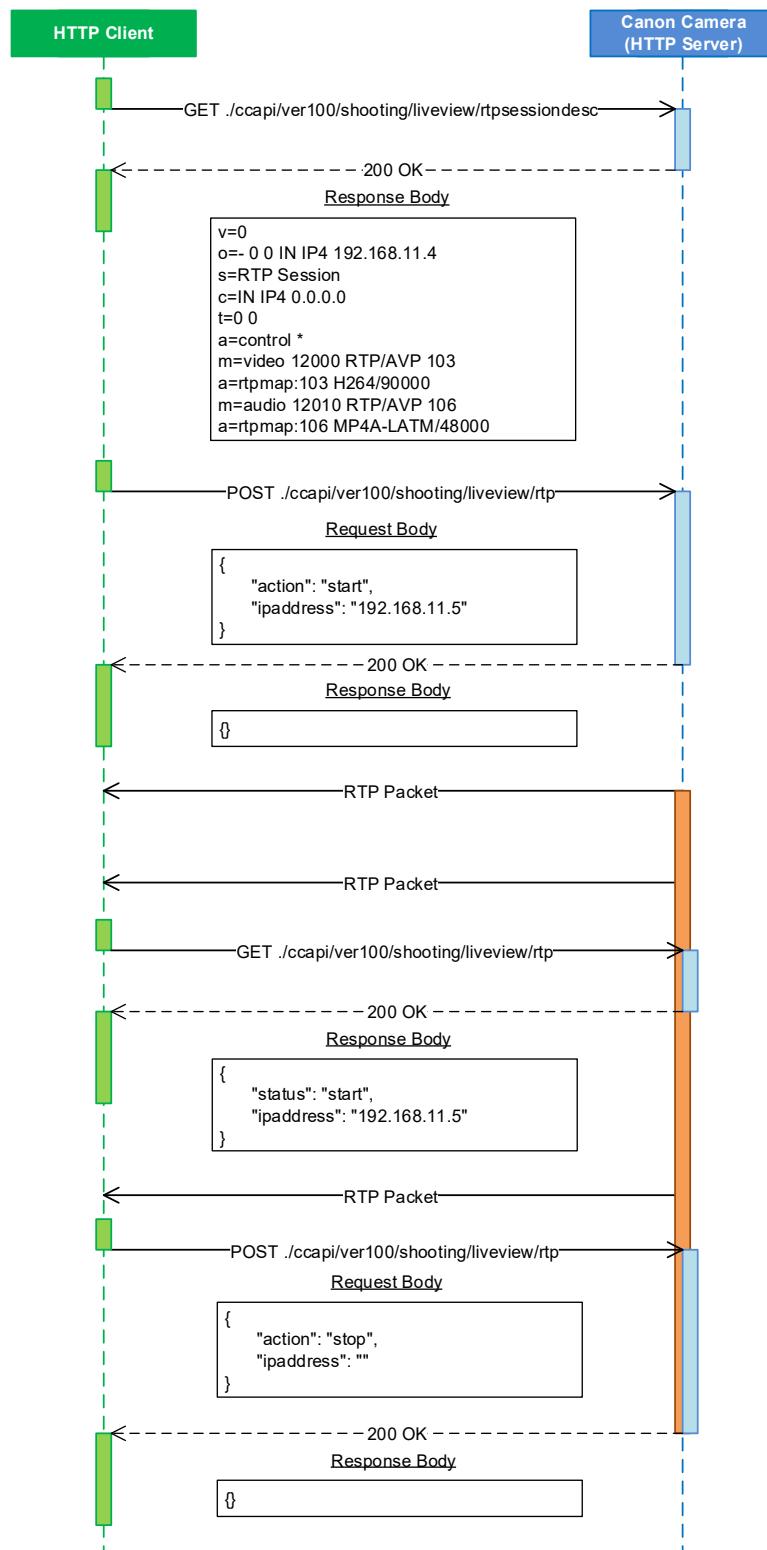
### 6.2.21. Get Live View image (scroll)



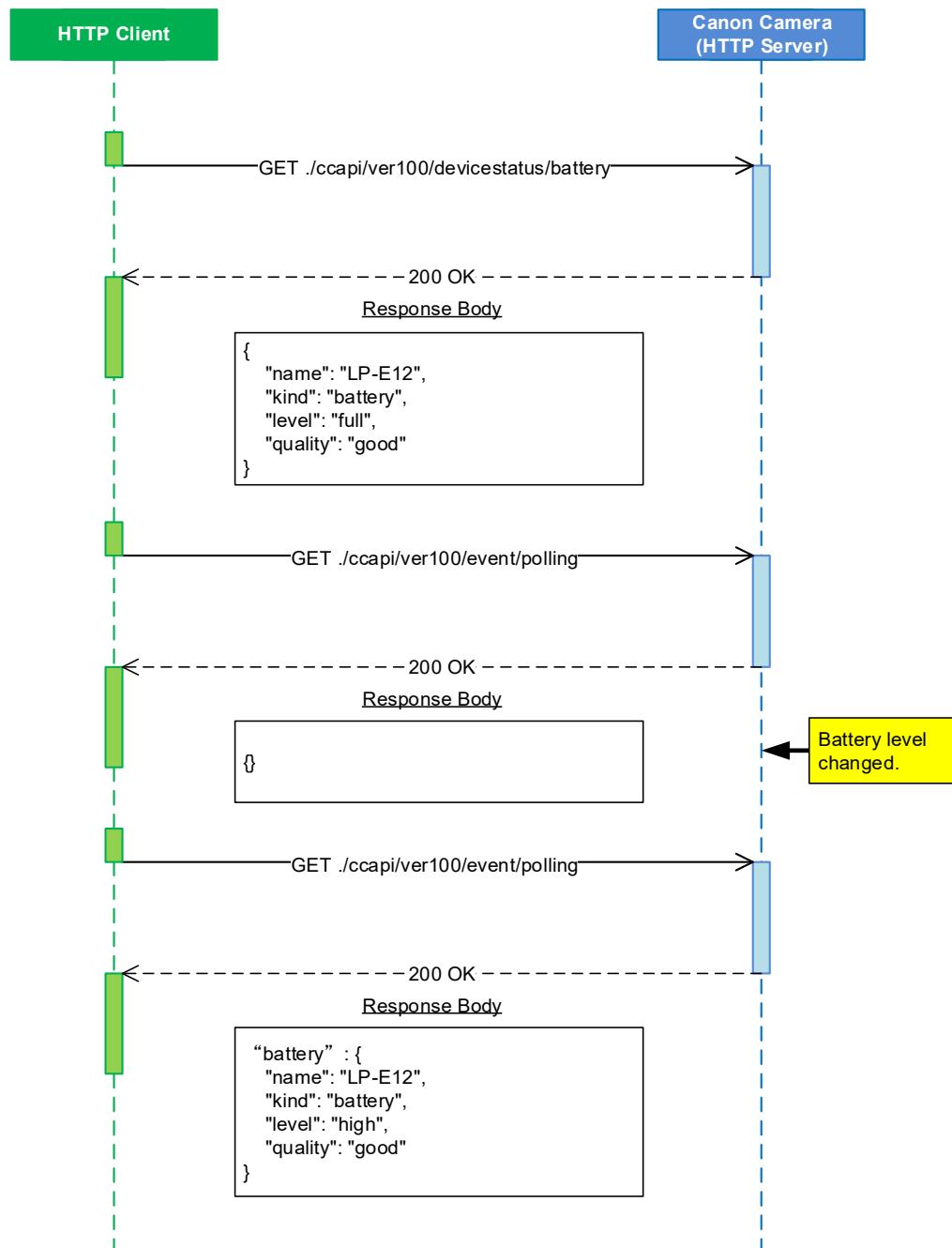
### 6.2.22. Still image shooting method using click white balance



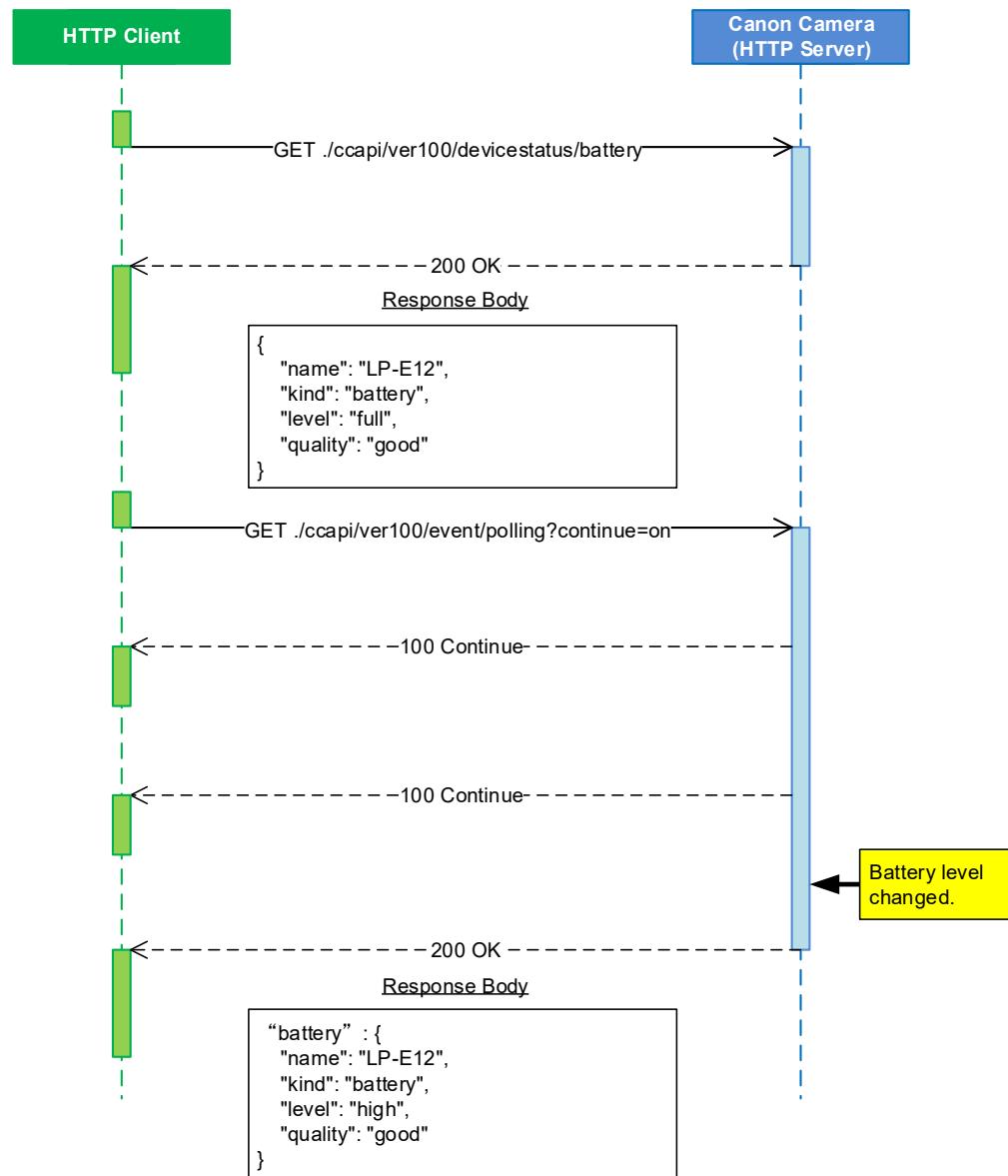
### 6.2.23. Start/stop RTP



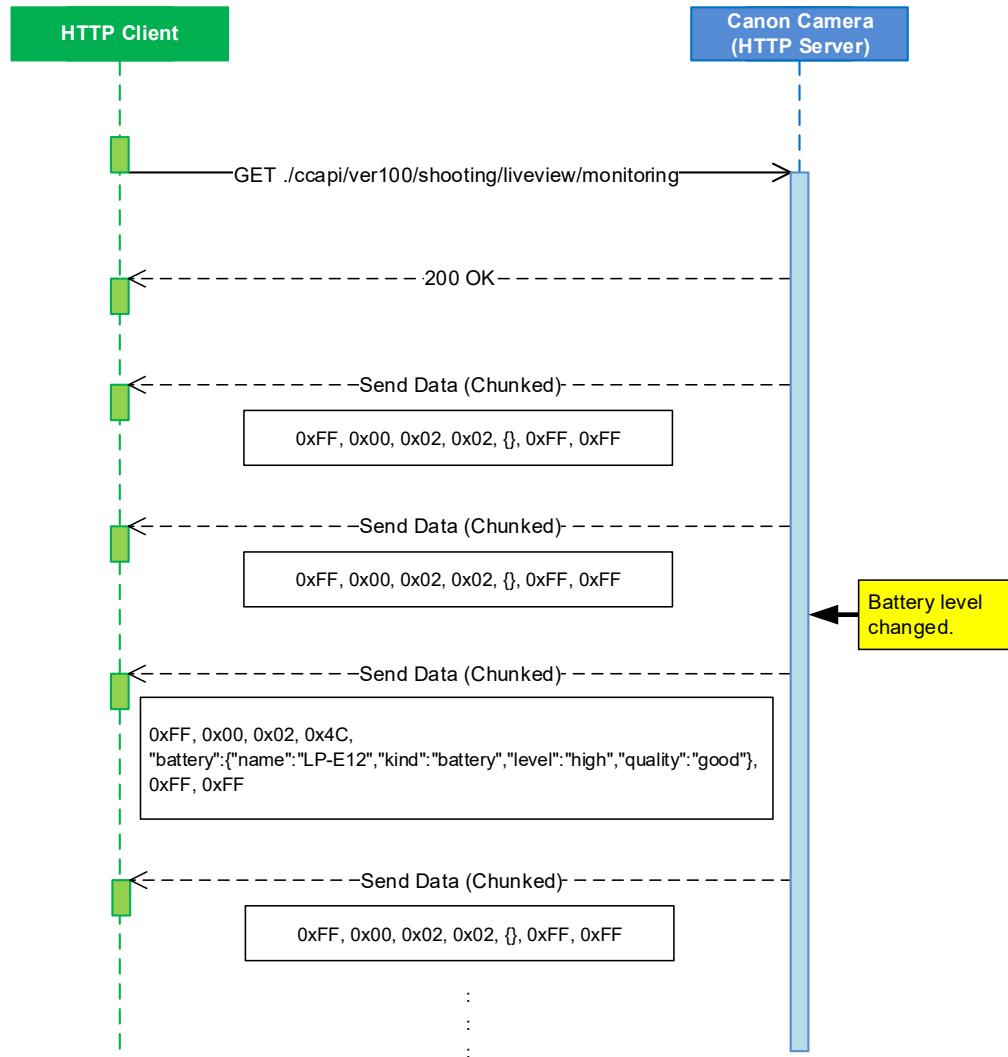
### 6.2.24. Get Event (polling)



### 6.2.25. Get Event (polling?continue=on)

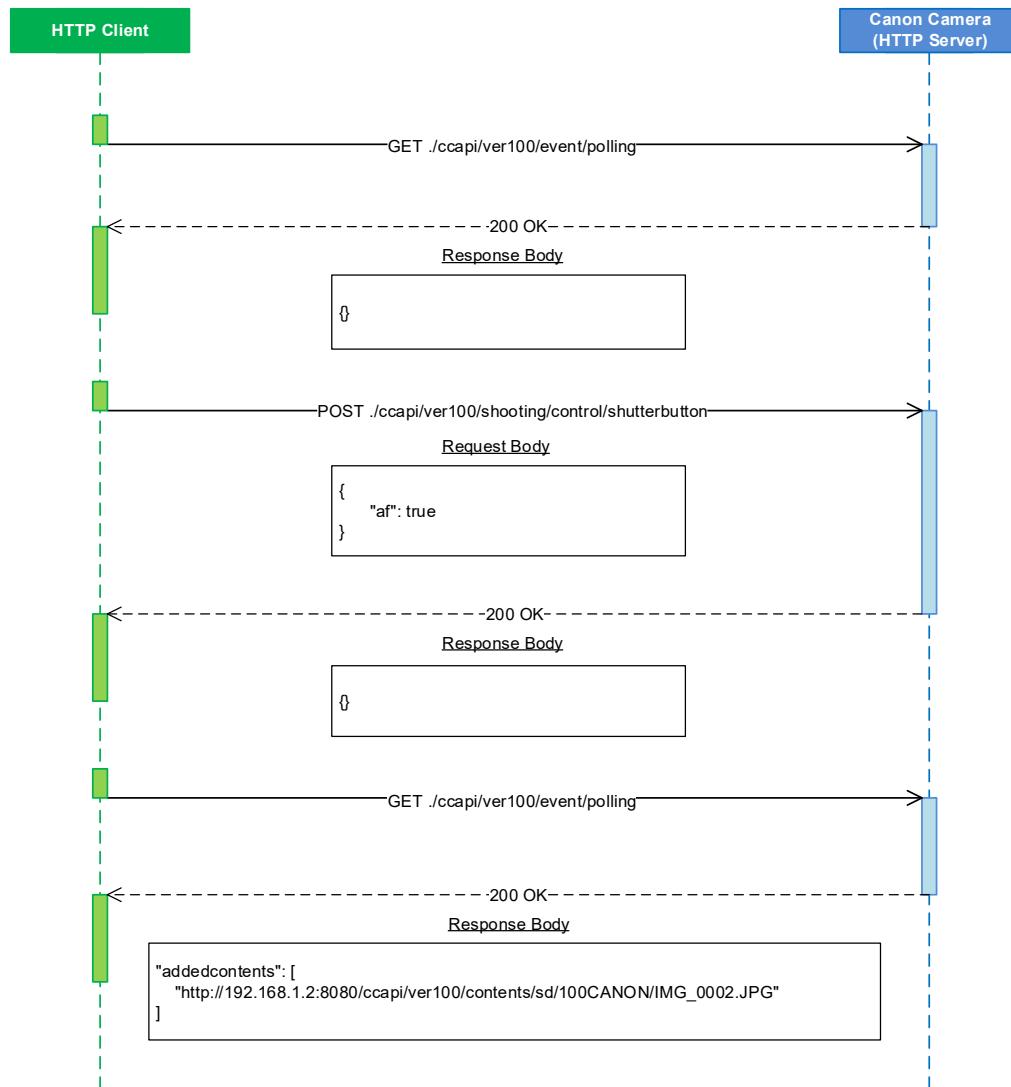


### 6.2.26. Get Event (monitoring)

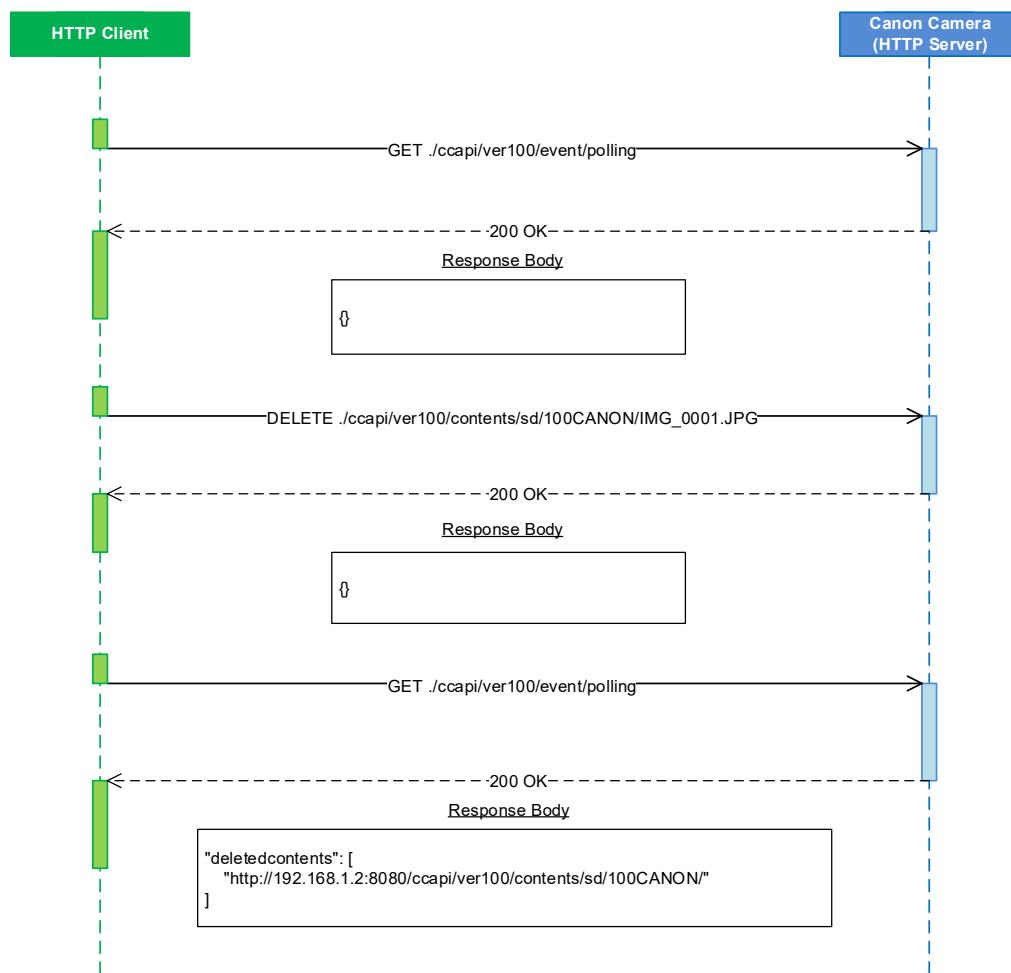


## 6.2.27. Event handling

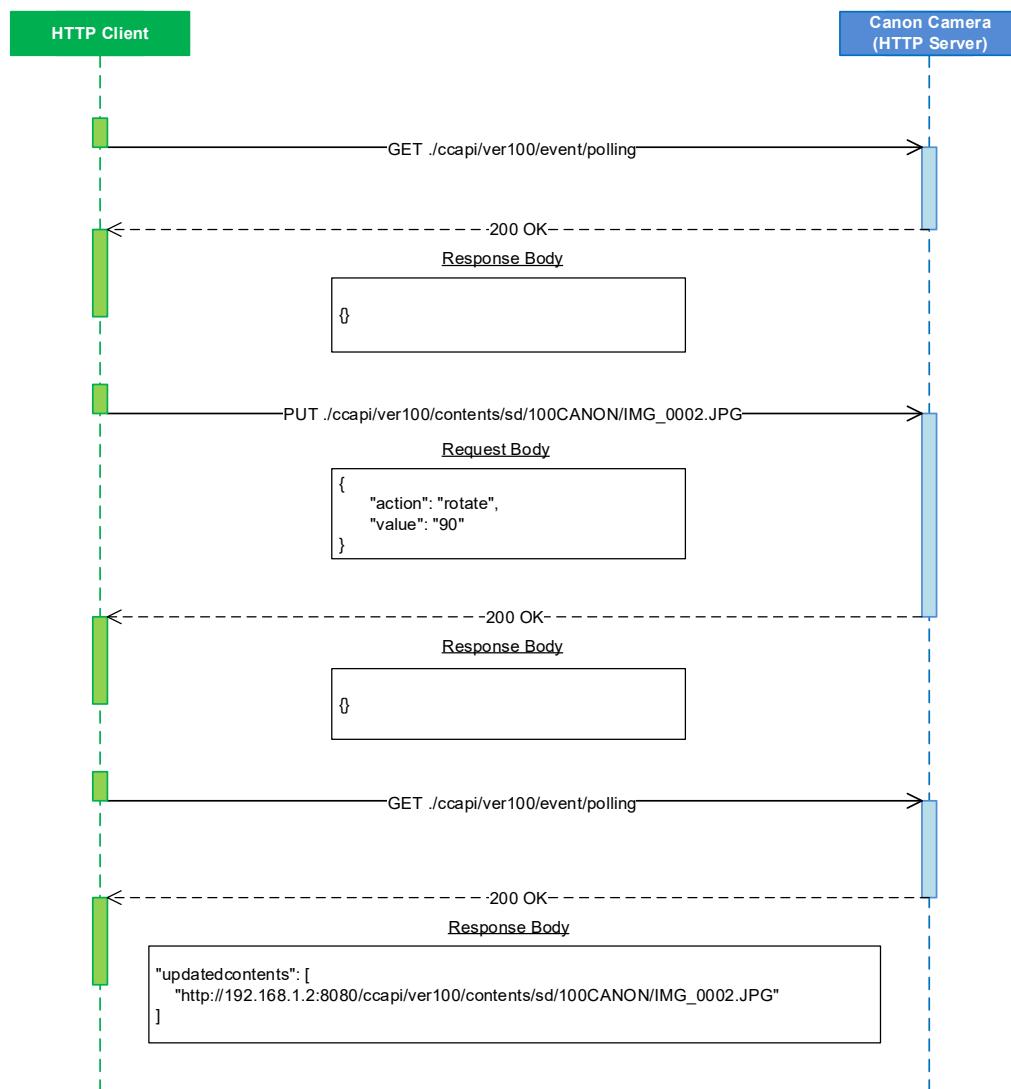
### ■ Add contents



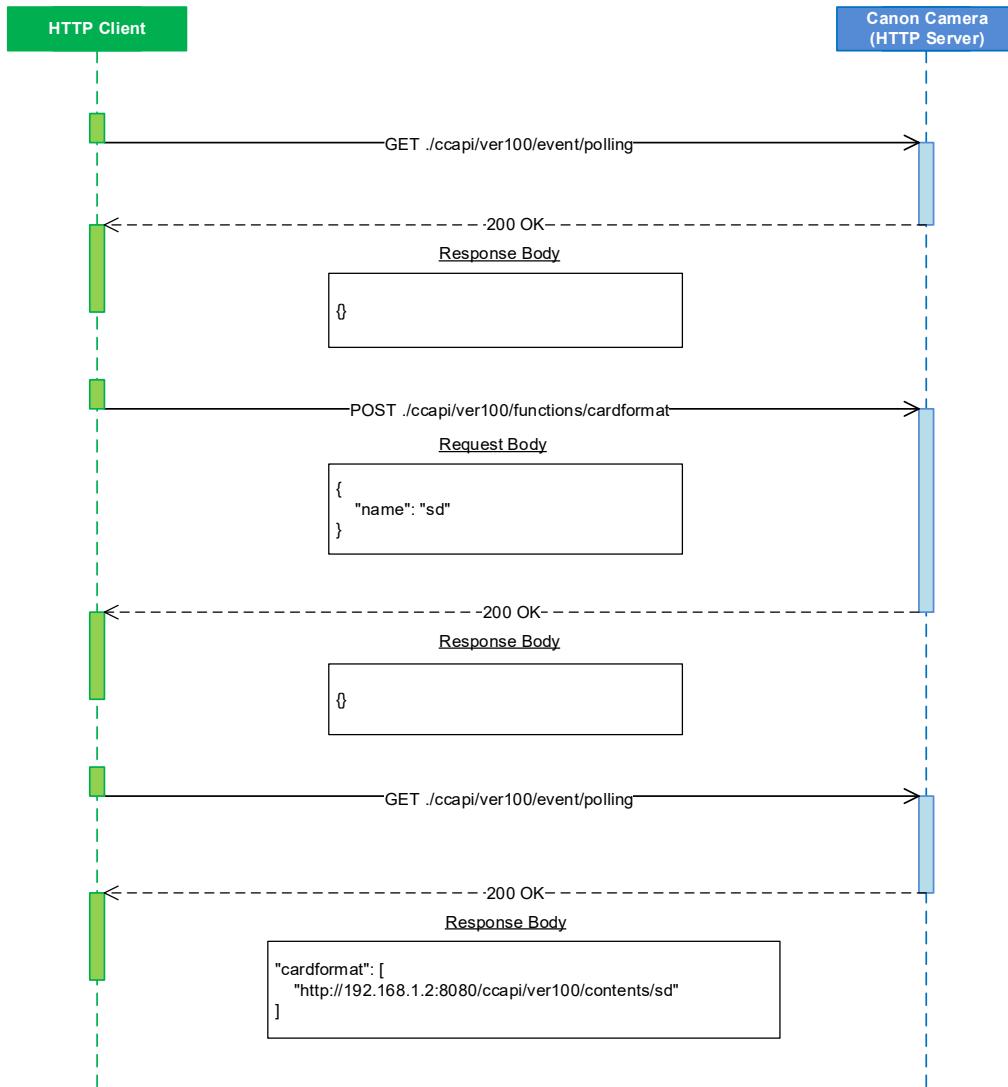
## ■ Delete contents

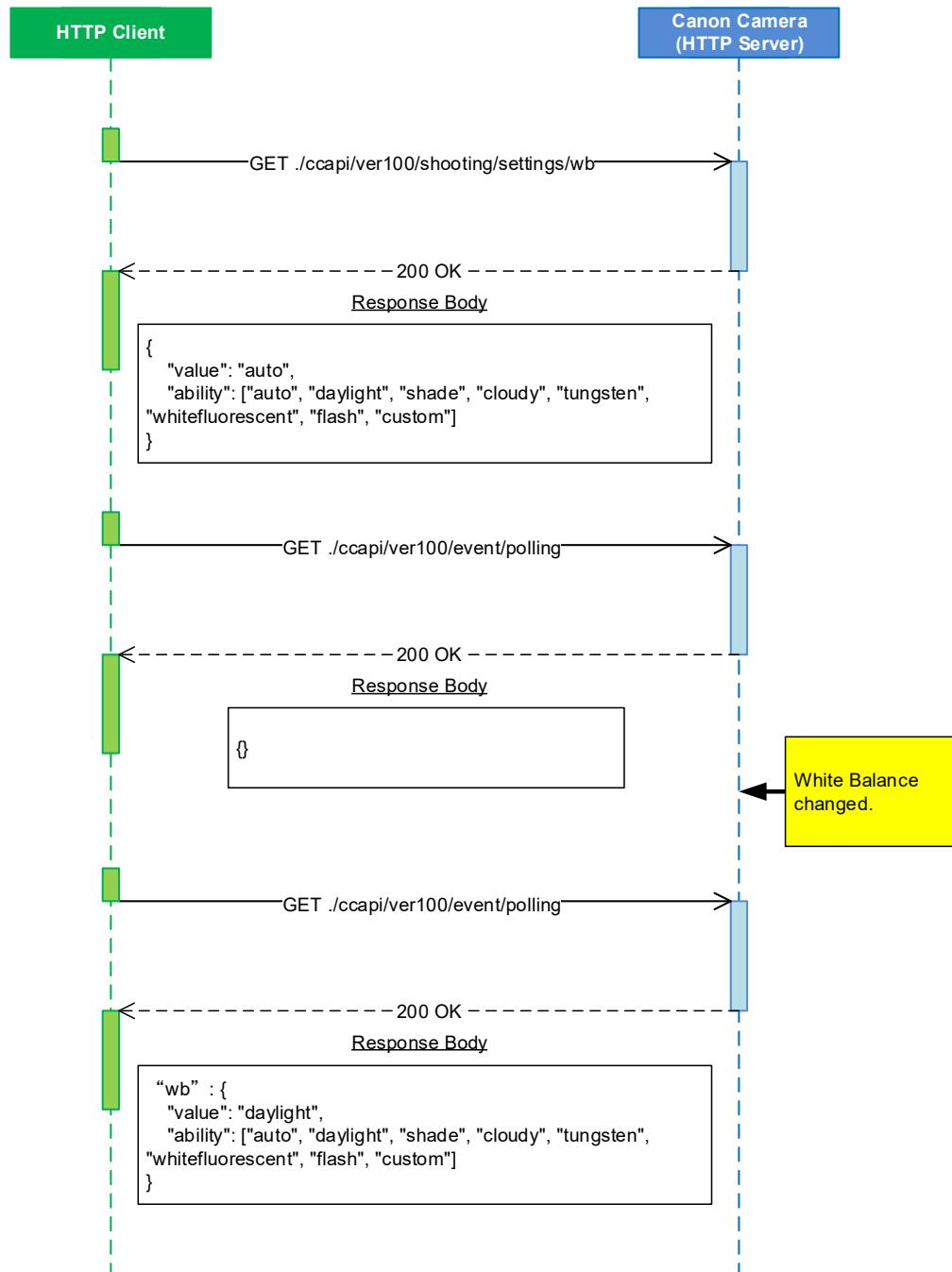


## ■ Modify contents



## ■ Execute formatting



**■ Change settings from camera UI**

## 6.3. List of supported APIs for Canon cameras

The following is a list of APIs supported by each Canon camera.

### 6.3.1. PowerShot SX70 HS

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/storage	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/temperature	O	X	X	X
/devicestatus/releasecount	O	X	X	X
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/artist	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/beep	O	X	O	X
/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O
/contents	O	O	O	O
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/zoom	O	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings/shootingmodedial	O	X	X	X
/shooting/settings/av	O	X	O	X

/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/whitebalance	O	X	O	X
/shooting/settings/focus	O	X	X	X
/shooting/settings/af	O	X	O	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aperturebracket	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/event/polling	O	X	X	O
/event/monitoring	O	X	X	O

### 6.3.2. PowerShot G5 X Mark II

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X

/devicestatus/storage	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/temperature	O	X	X	X
/devicestatus/releasecount	O	X	X	X
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/beep	O	X	O	X
/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O
/contents	O	O	O	O
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/zoom	O	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmodedial	O	X	X	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	X	X
/shooting/settings/afmethod	O	X	O	X

/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/shooting/liveview/angleinformation	X	O	X	X

/shooting/liveview/afframeposition	X	X	O	X
/event/polling	O	X	X	O
/event/monitoring	O	X	X	O

### 6.3.3. PowerShot G7 X Mark III

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/storage	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/temperature	O	X	X	X
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/beep	O	X	O	X
/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O
/contents	O	O	O	O
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/zoom	O	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmodedial	O	X	X	X

/shooting/settings/shootingmodedial/movie	O	X	X	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	X	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X

/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/polling	O	X	X	O
/event/monitoring	O	X	X	O

### 6.3.4. EOS RP

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/storage	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X
/devicestatus/releasecount	O	X	X	X
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/beep	O	X	O	X
/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X

/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O
/contents	O	O	O	O
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings/shootingmodedial	O	X	X	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	X	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/focusposition	X	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O

/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/event/polling	O	X	X	O
/event/monitoring	O	X	X	O

### 6.3.5. EOS 90D

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/storage	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X

/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/beep	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O
/contents	O	O	O	O
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmodedial	O	X	X	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	X	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X

/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/polling	O	X	X	O

/event/monitoring	O	X	X	O
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### 6.3.6. EOS M6 Mark II

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/storage	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/beep	O	X	O	X
/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O
/contents	O	O	O	O
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmodedial	O	X	X	X
/shooting/settings/av	O	X	O	X

/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	X	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X

/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/polling	O	X	X	O
/event/monitoring	O	X	X	O

### 6.3.7. EOS Kiss X10, EOS REBEL SL3, EOS 250D/200D II

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/storage	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X
/devicestatus/releasecount	O	X	X	X
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/beep	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O

/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O
/contents	O	O	O	O
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmodedial	O	X	X	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/afoperation	O	X	X	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O

/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/polling	O	X	X	O
/event/monitoring	O	X	X	O

### 6.3.8. EOS Kiss X10i, EOS REBEL T8i, EOS 850D

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/storage	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X
/functions/registeredname/copyright	O	X	O	O

/functions/registeredname/author	O	X	O	O
/functions/registeredname/username	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/beep	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O
/contents	O	O	O	O
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmodedial	O	X	X	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	X	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X

/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/polling	O	X	X	O
/event/monitoring	O	X	X	O

### 6.3.9. EOS M200

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/storage	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/beep	O	X	O	X
/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O
/contents	O	O	O	O
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmodedial	O	X	X	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X

/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	X	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X

/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/polling	O	X	X	O
/event/monitoring	O	X	X	O

### 6.3.10. EOS-1D X Mark III

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/storage	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/beep	O	X	O	X
/functions/autopoweroff	O	X	O	X
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X

/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmode	O	X	O	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	X	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X

/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/polling	O	X	X	O
/event/monitoring	O	X	X	O

### ■ Ver.1.1.0

API	GET	POST	PUT	DELETE
/devicestatus/currentdirectory	O	X	X	X
/functions/networkconnection	X	O	X	X
/contents	O	O	O	O
/shooting/settings	O	X	X	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/stillimagecompression/large	O	X	O	X
/shooting/settings/stillimagecompression/medium1	O	X	O	X
/shooting/settings/stillimagecompression/medium2	O	X	O	X
/shooting/settings/stillimagecompression/small	O	X	O	X
/shooting/settings/hdr	O	X	O	X
/customfunction/exposureincrements/av	O	X	X	X
/customfunction/exposureincrements/tv	O	X	X	X
/customfunction/exposureincrements/exposure	O	X	X	X
/customfunction/exposureincrements/flashexposure	O	X	X	X
/customfunction/isoincrements	O	X	X	X

### 6.3.11. EOS Kiss M2, EOS M50 Mark II

■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/storage	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/beep	O	X	O	X
/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O
/contents	O	O	O	O
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmodedial	O	X	X	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X

/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	X	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X

/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/polling	O	X	X	O
/event/monitoring	O	X	X	O

### 6.3.12. EOS R5

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/sensorcleaning	X	O	X	X
/functions/beep	O	X	O	X
/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O

/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmode	O	X	O	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	X	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O

/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/focusbracketing	O	X	O	X
/shooting/settings/focusbracketing/numberofshots	O	X	O	X
/shooting/settings/focusbracketing/focusincrement	O	X	O	X
/shooting/settings/focusbracketing/exposuresmoothing	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/polling	O	X	X	O
/event/monitoring	O	X	X	O

### ■ Ver.1.1.0

API	GET	POST	PUT	DELETE
/devicestatus/storage	O	X	X	X
/devicestatus/currentstorage	O	X	X	X
/devicestatus/currentdirectory	O	X	X	X
/devicestatus/batterylist	O	X	X	X
/contents	O	X	O	O
/shooting/settings	O	X	X	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/hdr	O	X	O	X
/shooting/settings/highframerate	O	X	O	X

/shooting/liveview/clickwb	X	O	X	X
/customfunction/exposureincrements/av	O	X	X	X
/customfunction/exposureincrements/tv	O	X	X	X
/customfunction/exposureincrements/exposure	O	X	X	X
/customfunction/exposureincrements/flashexposure	O	X	X	X
/customfunction/isoincrements	O	X	X	X

■ Ver.1.3.0

API	GET	POST	PUT	DELETE
/contents	O	X	O	O

### 6.3.13. EOS R6

■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/sensorcleaning	X	O	X	X
/functions/beep	O	X	O	X
/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O

/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/ignoreshootingmodemode	O	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmodemode	O	X	O	X
/shooting/settings/shootingmodemode/movie	O	X	O	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	X	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O

/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/focusbracketing	O	X	O	X
/shooting/settings/focusbracketing/numberofshots	O	X	O	X
/shooting/settings/focusbracketing/focusincrement	O	X	O	X
/shooting/settings/focusbracketing/exposuresmoothing	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/polling	O	X	X	O
/event/monitoring	O	X	X	O

### ■ Ver.1.1.0

API	GET	POST	PUT	DELETE
/devicestatus/storage	O	X	X	X
/devicestatus/currentstorage	O	X	X	X
/devicestatus/currentdirectory	O	X	X	X
/devicestatus/batterylist	O	X	X	X
/contents	O	X	O	O
/shooting/settings	O	X	X	X
/shooting/settings/stillimagequality	O	X	O	X

/shooting/settings/hdr	O	X	O	X
/shooting/settings/highframerate	O	X	O	X
/shooting/liveview/clickwb	X	O	X	X
/customfunction/exposureincrements/av	O	X	X	X
/customfunction/exposureincrements/tv	O	X	X	X
/customfunction/exposureincrements/exposure	O	X	X	X
/customfunction/exposureincrements/flashexposure	O	X	X	X
/customfunction/isoincrements	O	X	X	X

### 6.3.14. EOS R3

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/sensorcleaning	X	O	X	X
/functions/beep	O	X	O	X
/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmode	O	X	O	X

/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	O	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/drive/customhighspeedcont/shootingspeed	O	X	O	X
/shooting/settings/drive/customhighspeedcont/numberofshots	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/focusbracketing	O	X	O	X
/shooting/settings/focusbracketing/numberofshots	O	X	O	X

/shooting/settings/focusbracketing/focusincrement	O	X	O	X
/shooting/settings/focusbracketing/exposuresmoothing	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/polling	O	X	X	O
/event/monitoring	O	X	X	O

### ■ Ver.1.1.0

API	GET	POST	PUT	DELETE
/devicestatus/storage	O	X	X	X
/devicestatus/currentstorage	O	X	X	X
/devicestatus/currentdirectory	O	X	X	X
/devicestatus/batterylist	O	X	X	X
/functions/networkconnection	X	O	X	X
/contents	O	O	O	O
/shooting/settings	O	X	X	X
/shooting/settings/trackingsetting	O	X	O	X
/shooting/settings/shuttermode	O	X	O	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/stillimagecompression/large	O	X	O	X
/shooting/settings/stillimagecompression/medium	O	X	O	X
/shooting/settings/stillimagecompression/small1	O	X	O	X

/shooting/settings/stillimagecompression/small2	O	X	O	X
/shooting/settings/hdr	O	X	O	X
/shooting/settings/highframerate	O	X	O	X
/shooting/settings/moviecropping	O	X	O	X
/shooting/settings/movieformat	O	X	O	X
/shooting/liveview/clickwb	X	O	X	X
/customfunction/exposureincrements/av	O	X	X	X
/customfunction/exposureincrements/tv	O	X	X	X
/customfunction/exposureincrements/exposure	O	X	X	X
/customfunction/exposureincrements/flashexposure	O	X	X	X
/customfunction/isoincrements	O	X	X	X
/shooting/settings/antiflickershoot	O	X	O	X
/shooting/control/flickerdetection	X	O	X	X
/shooting/settings/hfantiflickershoot	O	X	O	X
/shooting/control/hfflickerdetection	X	O	X	X
/shooting/settings/hfflickertv	O	X	O	X
/shooting/control/hfflickertv	X	O	X	X
/functions/networksetting	O	X	X	X

### 6.3.15. EOS R7

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/sensorcleaning	X	O	X	X
/functions/beep	O	X	O	X

/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/ignoreshootingmodemode	O	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmodemode	O	X	O	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	O	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O

/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/focusbracketing	O	X	O	X
/shooting/settings/focusbracketing/numberofshots	O	X	O	X
/shooting/settings/focusbracketing/focusincrement	O	X	O	X
/shooting/settings/focusbracketing/exposuresmoothing	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/polling	O	X	X	O
/event/monitoring	O	X	X	O

### ■ Ver.1.1.0

API	GET	POST	PUT	DELETE
/devicestatus/storage	O	X	X	X
/devicestatus/currentstorage	O	X	X	X
/devicestatus/currentdirectory	O	X	X	X

/devicestatus/batterylist	O	X	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O
/contents	O	X	O	O
/shooting/settings	O	X	X	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/hdr	O	X	O	X
/shooting/settings/shuttermode	O	X	O	X
/shooting/settings/highframerate	O	X	O	X
/shooting/liveview/clickwb	X	O	X	X
/customfunction/exposureincrements/av	O	X	X	X
/customfunction/exposureincrements/tv	O	X	X	X
/customfunction/exposureincrements/exposure	O	X	X	X
/customfunction/exposureincrements/flashexposure	O	X	X	X
/customfunction/isoincrements	O	X	X	X
/shooting/control/flickerdetection	X	O	X	X
/shooting/settings/antiflickershoot	O	X	O	X

### 6.3.16. EOS R10

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X

/functions/sensorcleaning	X	O	X	X
/functions/beep	O	X	O	X
/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/ignoreshootingmodemode	O	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmodemode	O	X	X	X
/shooting/settings/shootingmodemode/movie	O	X	O	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	O	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O

/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/focusbracketing	O	X	O	X
/shooting/settings/focusbracketing/numberofshots	O	X	O	X
/shooting/settings/focusbracketing/focusincrement	O	X	O	X
/shooting/settings/focusbracketing/exposuresmoothing	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/polling	O	X	X	O
/event/monitoring	O	X	X	O

**■ Ver.1.1.0**

API	GET	POST	PUT	DELETE
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/devicestatus/storage	O	X	X	X
/devicestatus/currentstorage	O	X	X	X
/devicestatus/currentdirectory	O	X	X	X
/devicestatus/batterylist	O	X	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O
/contents	O	X	O	O
/shooting/settings	O	X	X	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/hdr	O	X	O	X
/shooting/settings/shuttermode	O	X	O	X
/shooting/settings/trackingsetting	O	X	O	X
/shooting/settings/highframerate	O	X	O	X
/shooting/liveview/clickwb	X	O	X	X
/customfunction/exposureincrements/av	O	X	X	X
/customfunction/exposureincrements/tv	O	X	X	X
/customfunction/exposureincrements/exposure	O	X	X	X
/customfunction/exposureincrements/flashexposure	O	X	X	X
/customfunction/isoincrements	O	X	X	X
/shooting/control/flickerdetection	X	O	X	X
/shooting/settings/antiflickershoot	O	X	O	X

### 6.3.17. EOS R6 Mark II

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X
/functions/ssl/servercert/commonname	O	X	O	O
/functions/ssl/cacert	O	X	X	X
/functions/cors/corssetting	O	X	O	X

/functions/cors/origin	O	X	O	O
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/sensorcleaning	X	O	X	X
/functions/beep	O	X	O	X
/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/ignoreshootingmodemode	O	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmodemode	O	X	O	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	O	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X

/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/focusbracketing	O	X	O	X
/shooting/settings/focusbracketing/numberofshots	O	X	O	X
/shooting/settings/focusbracketing/focusincrement	O	X	O	X
/shooting/settings/focusbracketing/exposuresmoothing	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/multipart	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X

/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/monitoring	O	X	X	O

### ■ Ver.1.1.0

API	GET	POST	PUT	DELETE
/devicestatus/storage	O	X	X	X
/devicestatus/currentstorage	O	X	X	X
/devicestatus/currentdirectory	O	X	X	X
/devicestatus/batterylist	O	X	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O
/shooting/settings	O	X	X	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/hdr	O	X	O	X
/shooting/settings/shuttermode	O	X	O	X
/shooting/settings/trackingsetting	O	X	O	X
/shooting/settings/highframerate	O	X	O	X
/shooting/liveview/clickwb	X	O	X	X
/event/polling	O	X	X	O
/customfunction/exposureincrements/av	O	X	X	X
/customfunction/exposureincrements/tv	O	X	X	X
/customfunction/exposureincrements/exposure	O	X	X	X
/customfunction/exposureincrements/flashexposure	O	X	X	X
/customfunction/isoincrements	O	X	X	X
/shooting/control/flickerdetection	X	O	X	X
/shooting/settings/antiflickershoot	O	X	O	X
/shooting/control/hfflickerdetection	X	O	X	X
/shooting/settings/hfantiflickershoot	O	X	O	X
/shooting/control/hfflickertv	X	O	X	X
/shooting/settings/hfflickertv	O	X	O	X
/shooting/settings/moviecropping	O	X	O	X

■ Ver.1.2.0

API	GET	POST	PUT	DELETE
/contents	O	X	O	O

### 6.3.18. EOS R8

■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X
/functions/ssl/servercert/commonname	O	X	O	O
/functions/ssl/cacert	O	X	X	X
/functions/cors/corssetting	O	X	O	X
/functions/cors/origin	O	X	O	O
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/sensorcleaning	X	O	X	X
/functions/beep	O	X	O	X
/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/ignoreshootingmodemode	O	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X

/shooting/settings/shootingmodedial	O	X	O	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	O	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/focusbracketing	O	X	O	X
/shooting/settings/focusbracketing/numberofshots	O	X	O	X
/shooting/settings/focusbracketing/focusincrement	O	X	O	X

/shooting/settings/focusbracketing/exposuresmoothing	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/multipart	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/monitoring	O	X	X	O

### ■ Ver.1.1.0

API	GET	POST	PUT	DELETE
/devicestatus/storage	O	X	X	X
/devicestatus/currentstorage	O	X	X	X
/devicestatus/currentdirectory	O	X	X	X
/devicestatus/batterylist	O	X	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O
/shooting/settings	O	X	X	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/hdr	O	X	O	X
/shooting/settings/shuttermode	O	X	O	X
/shooting/settings/trackingsetting	O	X	O	X
/shooting/settings/highframerate	O	X	O	X

/shooting/liveview/clickwb	X	O	X	X
/event/polling	O	X	X	O
/customfunction/exposureincrements/av	O	X	X	X
/customfunction/exposureincrements/tv	O	X	X	X
/customfunction/exposureincrements/exposure	O	X	X	X
/customfunction/exposureincrements/flashexposure	O	X	X	X
/customfunction/isoincrements	O	X	X	X
/shooting/control/flickerdetection	X	O	X	X
/shooting/settings/antiflickershoot	O	X	O	X
/shooting/control/hfflickerdetection	X	O	X	X
/shooting/settings/hfantiflickershoot	O	X	O	X
/shooting/control/hfflickertv	X	O	X	X
/shooting/settings/hfflickertv	O	X	O	X
/shooting/settings/moviecropping	O	X	O	X

#### ■ Ver.1.2.0

API	GET	POST	PUT	DELETE
/contents	O	X	O	O

### 6.3.19. EOS R50

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X
/functions/ssl/servercert/commonname	O	X	O	O
/functions/ssl/cacert	O	X	X	X
/functions/cors/corssetting	O	X	O	X
/functions/cors/origin	O	X	O	O
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O

/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/beep	O	X	O	X
/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/ignoreshootingmodemode	O	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmodemode	O	X	O	X
/shooting/settings/shootingmodemode/movie	O	X	O	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	O	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X

/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/focusbracketing	O	X	O	X
/shooting/settings/focusbracketing/numberofshots	O	X	O	X
/shooting/settings/focusbracketing/focusincrement	O	X	O	X
/shooting/settings/focusbracketing/exposuresmoothing	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/multipart	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/monitoring	O	X	X	O

**■ Ver.1.1.0**

API	GET	POST	PUT	DELETE
/devicestatus/storage	O	X	X	X
/devicestatus/currentstorage	O	X	X	X
/devicestatus/currentdirectory	O	X	X	X
/devicestatus/batterylist	O	X	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O
/shooting/settings	O	X	X	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/hdr	O	X	O	X
/shooting/settings/shuttermode	O	X	O	X
/shooting/settings/trackingsetting	O	X	O	X
/shooting/settings/highframerate	O	X	O	X
/shooting/liveview/clickwb	X	O	X	X
/event/polling	O	X	X	O
/customfunction/exposureincrements/av	O	X	X	X
/customfunction/exposureincrements/tv	O	X	X	X
/customfunction/exposureincrements/exposure	O	X	X	X
/customfunction/exposureincrements/flashexposure	O	X	X	X
/customfunction/isoincrements	O	X	X	X
/shooting/control/flickerdetection	X	O	X	X
/shooting/settings/antiflickershoot	O	X	O	X
/shooting/control/hfflickerdetection	X	O	X	X
/shooting/settings/hfantiflickershoot	O	X	O	X

**■ Ver.1.2.0**

API	GET	POST	PUT	DELETE
/contents	O	X	O	O

### 6.3.20. EOS R100

■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/storage	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	O	X	X	X
/devicestatus/temperature	O	X	X	X
/functions/registeredname/copyright	O	X	O	O
/functions/registeredname/author	O	X	O	O
/functions/registeredname/ownername	O	X	O	O
/functions/registeredname/nickname	O	X	O	O
/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/beep	O	X	O	X
/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/functions/wifisetting/set2	O	X	O	O
/functions/wifisetting/set3	O	X	O	O
/contents	O	O	O	O
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmodedial	O	X	X	X

/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	X	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	O	X	O	X
/shooting/settings/wbbracket	O	X	O	X
/shooting/settings/colorspace	O	X	O	X
/shooting/settings/picturestyle	O	X	O	X
/shooting/settings/picturestyle/auto	O	X	O	O
/shooting/settings/picturestyle/standard	O	X	O	O
/shooting/settings/picturestyle/portrait	O	X	O	O
/shooting/settings/picturestyle/landscape	O	X	O	O
/shooting/settings/picturestyle/finedetail	O	X	O	O
/shooting/settings/picturestyle/neutral	O	X	O	O
/shooting/settings/picturestyle/faithful	O	X	O	O
/shooting/settings/picturestyle/monochrome	O	X	O	O
/shooting/settings/picturestyle/userdef1	O	X	O	O
/shooting/settings/picturestyle/userdef2	O	X	O	O
/shooting/settings/picturestyle/userdef3	O	X	O	O
/shooting/settings/picturestyle/userdef1/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	O	X	O	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	O	X	O	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X

/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	O	X	O	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/shooting/liveview/angleinformation	X	O	X	X
/event/polling	O	X	X	O
/event/monitoring	O	X	X	O

#### ■ Ver.1.1.0

API	GET	POST	PUT	DELETE
/shooting/settings/highframerate	O	X	O	X

### 6.3.21. PowerShot V10

#### ■ Ver.1.0.0

API	GET	POST	PUT	DELETE
/deviceinformation	O	X	X	X
/devicestatus/battery	O	X	X	X
/devicestatus/lens	X	X	X	X
/devicestatus/temperature	O	X	X	X
/functions/ssl/servercert/commonname	O	X	O	O
/functions/ssl/cacert	O	X	X	X
/functions/cors/corssetting	O	X	O	X
/functions/cors/origin	O	X	O	O
/functions/registeredname/copyright	X	X	O	O
/functions/registeredname/author	X	X	O	O
/functions/registeredname/ownername	X	X	O	O
/functions/registeredname/nickname	X	X	O	O

/functions/datetime	O	X	O	X
/functions/cardformat	X	O	X	X
/functions/beep	O	X	O	X
/functions/displayoff	O	X	O	X
/functions/autopoweroff	O	X	O	X
/functions/wificonnection	X	O	X	X
/shooting/control/shutterbutton	X	O	X	X
/shooting/control/shutterbutton/manual	X	O	X	X
/shooting/control/moviemode	O	O	X	X
/shooting/control/recbutton	X	O	X	X
/shooting/control/drivefocus	X	O	X	X
/shooting/control/af	X	O	X	X
/shooting/settings	O	X	X	X
/shooting/settings/shootingmode	O	X	O	X
/shooting/settings/shootingmodedial	O	X	X	X
/shooting/settings/shootingmodedial/movie	O	X	X	X
/shooting/settings/av	O	X	O	X
/shooting/settings/tv	O	X	O	X
/shooting/settings/iso	O	X	O	X
/shooting/settings/exposure	O	X	O	X
/shooting/settings/wb	O	X	O	X
/shooting/settings/colortemperature	O	X	O	X
/shooting/settings/afoperation	O	X	O	X
/shooting/settings/afmethod	O	X	O	X
/shooting/settings/stillimageaspectratio	O	X	O	X
/shooting/settings/flash	O	X	O	X
/shooting/settings/metering	O	X	O	X
/shooting/settings/drive	O	X	O	X
/shooting/settings/aeb	O	X	O	X
/shooting/settings/wbshift	X	X	X	X
/shooting/settings/wbbracket	X	X	X	X
/shooting/settings/colorspace	X	X	X	X
/shooting/settings/picturestyle	X	X	X	X
/shooting/settings/picturestyle/auto	X	X	X	X
/shooting/settings/picturestyle/standard	X	X	X	X

/shooting/settings/picturestyle/portrait	X	X	X	X
/shooting/settings/picturestyle/landscape	X	X	X	X
/shooting/settings/picturestyle/finedetail	X	X	X	X
/shooting/settings/picturestyle/neutral	X	X	X	X
/shooting/settings/picturestyle/faithful	X	X	X	X
/shooting/settings/picturestyle/monochrome	X	X	X	X
/shooting/settings/picturestyle/userdef1	X	X	X	X
/shooting/settings/picturestyle/userdef2	X	X	X	X
/shooting/settings/picturestyle/userdef3	X	X	X	X
/shooting/settings/picturestyle/userdef1/basepicturestyle	X	X	X	X
/shooting/settings/picturestyle/userdef2/basepicturestyle	X	X	X	X
/shooting/settings/picturestyle/userdef3/basepicturestyle	X	X	X	X
/shooting/settings/moviequality	O	X	O	X
/shooting/settings/soundrecording	O	X	O	X
/shooting/settings/soundrecording/level	O	X	O	X
/shooting/settings/soundrecording/windfilter	O	X	O	X
/shooting/settings/soundrecording/attenuator	X	X	X	X
/shooting/information/recordable	O	X	X	X
/shooting/liveview	X	O	X	X
/shooting/liveview/flip	O	X	X	X
/shooting/liveview/flipdetail	O	X	X	X
/shooting/liveview/scroll	O	X	X	O
/shooting/liveview/scrolldetail	O	X	X	O
/shooting/liveview/multipart	O	X	X	O
/shooting/liveview/rtp	O	O	X	X
/shooting/liveview/rtpsessiondesc	O	X	X	X
/shooting/liveview/angleinformation	X	O	X	X
/shooting/liveview/afframeposition	X	X	O	X
/event/monitoring	O	X	X	O

### ■ Ver.1.1.0

API	GET	POST	PUT	DELETE
/devicestatus/storage	O	X	X	X
/devicestatus/currentstorage	O	X	X	X
/devicestatus/currentdirectory	O	X	X	X

/devicestatus/batterylist	O	X	X	X
/functions/wifisetting	O	X	X	X
/functions/wifisetting/set1	O	X	O	O
/shooting/settings	O	X	X	X
/shooting/settings/stillimagequality	O	X	O	X
/shooting/settings/hdr	O	X	O	X
/shooting/settings/shuttermode	O	X	O	X
/event/polling	O	X	X	O
/customfunction/exposureincrements/av	O	X	X	X
/customfunction/exposureincrements/tv	O	X	X	X
/customfunction/exposureincrements/exposure	O	X	X	X
/customfunction/exposureincrements/flashexposure	O	X	X	X
/customfunction/isoincrements	O	X	X	X

**■ Ver.1.2.0**

API	GET	POST	PUT	DELETE
/contents	O	X	O	O